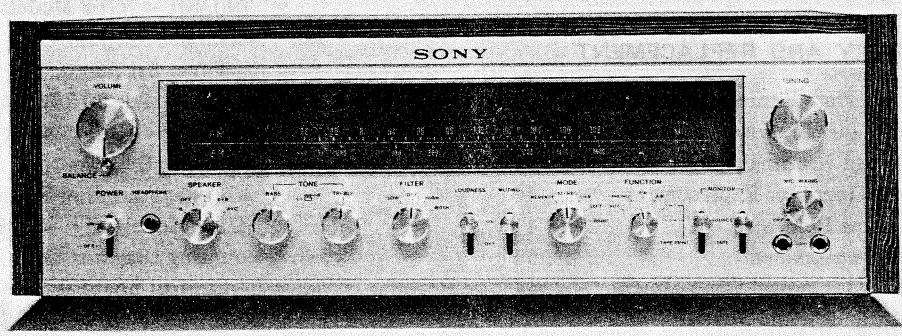
STR-7065

USA Model
(Serial No. 807,001 and later)
Canada Model
GEP Model



FM STEREO/FM-AM RECEIVER

SPECIFICATIONS

Fm Tuner Section

Frequency range:	87.5 MHz to 108 MHz
Usable sensitivity:	1.6 μV
Signal-to-noise ratio:	70 dB
Capture ratio:	1.0 dB
Frequency response:	20 Hz to 15,000 Hz ± 1 dB
Stereo separation:	Better than 38 dB at 400 Hz
Harmonic distortion:	Mono 0.2 % at 400 Hz 100 % modulation Stereo 0.5 % at 400 Hz 100 % modulation

A-m Tuner Section:

Frequency range:	530 kHz to 1,605 kHz
Sensitivity:	53 dB/m, built-in antenna at 1,000 kHz 30 μV, external antenna
Signal-to-noise ratio:	50 dB at 50 mV/m

Audio Amplifier Section:

Continuous RMS power output: (Less than 0.2 % THD)	Both channels driven simultaneously 60 + 60 watts (8 ohms) at 20 Hz to 20,000 Hz 70 + 70 watts (8 ohms), 85 + 85 watts (4 ohms) at 1 kHz One channel driven separately 85/85 watts (8 ohms), 110/110 watts (4 ohms)
Dynamic power output: (IHF constant power supply method)	240 watts (8 ohms) 380 watts (4 ohms)
Harmonic distortion:	Less than 0.2 % at continuous RMS power output Less than 0.1 % at 1 watt output

General

Power requirements:	120 volts, 60 Hz ac (USA and Canada Model) 100, 120, 220, 240 volts, 50/60 Hz ac (GEP Model)
Power consumption:	180 watts (USA Model) 360 VA (Canada Model) 300 watts (GEP Model)
Dimensions:	471 (w) x 157 (h) x 375 (d) mm $18\frac{9}{16}$ x $6\frac{3}{16}$ x $14\frac{3}{4}$ inches
Net weight:	15.2 kg (33 lb 8 oz)

SONY®
SERVICE MANUAL

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SERVICING NOTES

1. CAUTIONS ON HANDLING ICs

a. Excessive heat may destroy an IC. Never reinstall a used IC.

b. Check the related components for defects before replacing the IC.

c. When installing new ICs, do not apply excessive heat. Solder quickly while holding a wet rag on the heat-sink tab as shown in Fig. A.

d. Do not short adjacent IC leads when performing electrical checks as this might damage the IC.

e. Always solder the IC heat sink to the printed circuit board to avoid damage.

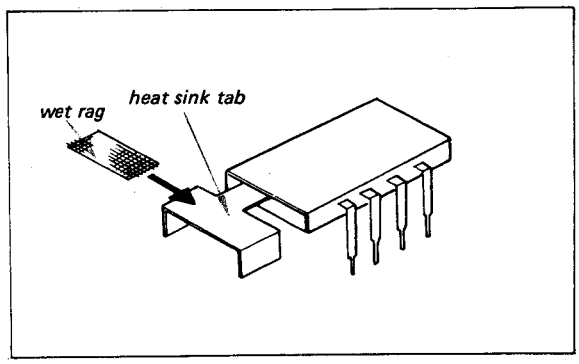


Fig. A. IC installation

2. NYLON RIVET REMOVAL

a. To remove the nylon rivet, push its end with a tweezers as shown in Fig. B.

b. To reinstall the rivet, insert the flared part into the opening first, then push its head as far as it will go.

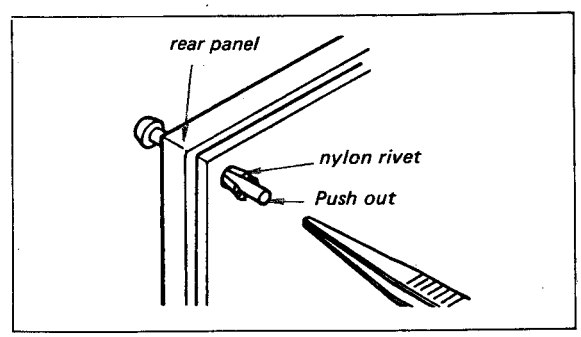


Fig. B. Nylon rivet removal

SECTION 1
TECHNICAL DESCRIPTION

1-1. SPECIFICATIONS

Fm Tuner Section

Frequency range:	87.5 MHz to 108 MHz
Antenna terminals:	300 ohms balanced 75 ohms unbalanced
Intermediate frequency:	10.7 MHz
Sensitivity:	2.0 μV (IHF), 1.6 μV (S/N = 30 dB)
Image rejection:	70 dB
I-f rejection:	100 dB
Spurious rejection:	90 dB
A-m suppression:	56 dB
Capture ratio:	1.0 dB
Selectivity:	70 dB, IHF
Signal-to-noise ratio:	70 dB
Frequency response:	20 Hz to 15 kHz ± 1 dB
Harmonic distortion:	Mono 0.2 % at 400 Hz, 100 % (75 kHz deviation) modulation Stereo 0.5 % at 400 Hz, 100 % (75 kHz deviation) modulation
Stereo separation:	Better than 38 dB at 400 Hz
19 kHz, 38 kHz suppression:	40 dB
SCA suppression:	55 dB
Muting level:	Less than 5 μV

A-m Tuner Section

Frequency range:	530 kHz to 1,605 kHz
Antenna:	Built-in bar antenna and external antenna terminal
Intermediate frequency:	455 kHz
Sensitivity:	53 dB/m, built-in bar antenna at 1,000 kHz 30 μ V, external antenna
Image rejection:	50 dB at 1,000 kHz
I-f rejection:	40 dB at 1,000 kHz
Signal-to-noise ratio:	50 dB at 50 mV/m
Harmonic distortion:	0.8 % at 50 mV/m

Amplifier Section

Continuous RMS power output: (Less than 0.2 % THD)	Both channels driven simultaneously 60 + 60 watts (8 ohms) at 20 Hz to 20 kHz 70 + 70 watts (8 ohms), 85 + 85 watts (4 ohms) at 1 kHz One channel driven separately 85/85 watts (8 ohms) 110/110 watts (4 ohms)
Dynamic power output: (IHF constant power supply method)	240 watts (8 ohms) 380 watts (4 ohms)
Power bandwidth, IHF:	15 Hz to 35 kHz
Damping factor:	50 (8 ohms)
Harmonic distortion:	Less than 0.2 % at continuous RMS power output Less than 0.1 % at 1 watt output
IM distortion: (60 Hz : 7 kHz = 4 : 1)	Less than 0.2 % at continuous RMS power output Less than 0.1 % at 1 watt output

Frequency response:

PHONO	RIAA equalization curve ± 1 dB
MIC	100 Hz to 10 kHz $^{+0}_{-3}$ dB
AUX, TAPE, REC/PB (input)	10 Hz to 70 kHz $^{+0}_{-3}$ dB

POWER AMP } 10 Hz to 100 kHz $^{+0}_{-1}$ dB

Signal-to-noise ratio:

	S/N	Weighting network	Input level
PHONO	72 dB	A	3 mV
MIC	65 dB	B	1.6 mV
AUX	90 dB	A	250 mV
TAPE			
REC/PB (input)			
POWER AMP	110 dB		1 V

Input sensitivity and impedance:

	Maximum sensitivity	Impedance
PHONO	2 mV	47 k ohms
MIC	1 mV	47 k ohms
AUX	150 mV	50 k ohms
TAPE		
REC/PB (input)		
POWER AMP	1 V	50 k ohms

Note: Maximum sensitivity means the input level at which the continuous RMS power output is provided into 8 ohms (with both channels driven at full volume) at 1 kHz.

Output level and impedance:

	Level	Impedance
REC OUT	250 mV	10 k ohms
REC/PB (output)	30 mV	82 k ohms
PREAMP OUTPUT	1 V	4.7 k ohms

HEADPHONE: Accepts all low and high impedance headphones.

SPEAKER: Accepts 4 ~ 16 ohm speakers.

Tone controls: BASS ± 10 dB at 100 Hz
TREBLE ± 10 dB at 10 kHz

High filter: 12 dB/oct. above 9 kHz

Low filter: 12 dB/oct. below 50 Hz

Loudness control: + 10 dB at 50 Hz, + 4 dB at 10 kHz (Attenuation : 30 dB)

General:

System: Superheterodyne fm/a-m, switching MPX Complementary symmetry circuit (SEPP OTL), Direct output coupling

Power requirements: 120 volts, 60 Hz ac (USA and Canada Model)
100, 120, 220, 240 volts, 50/60 Hz ac (GEP Model)

Power consumption: 180 watts . . . . USA Model
360 VA . . . . . Canada Model
300 watts . . . . GEP Model

AC outlets: 2 switched, 200 watts total } (USA and Canada Model only)
1 unswitched, 200 watts }

Dimensions: 471 (w) x 157 (h) x 375 (d) mm
$18^{9}/_{16}$ x $6^{3}/_{16}$ x $14^{3}/_{4}$ inches

Net weight: 15.2 kg (33 lb 8 oz)

Shipping weight: 18.9 kg (41 lb 11 oz)

1-2. CIRCUIT DESCRIPTION DIGEST

1. Noise Elimination Circuit for Tuner Section

This circuit is used to eliminate noises due to B+ voltage fluctuation of tuner when changing the FUNCTION switch S1 to FM or AM from other position. Referring to Fig. 1-1, when S1 is changed

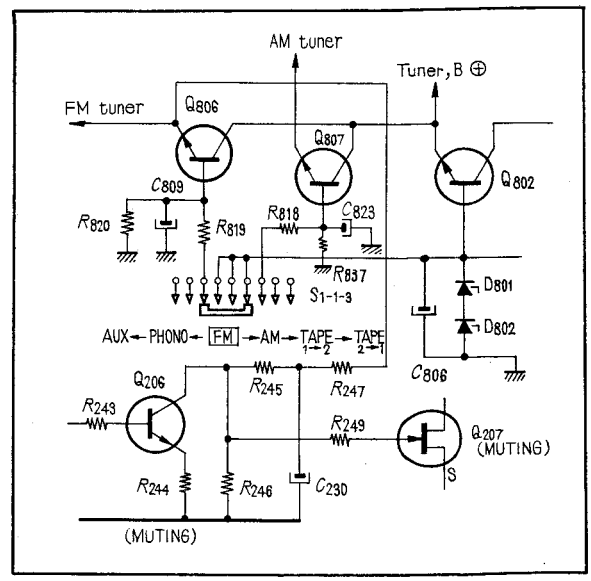


Fig. 1-1. Noise elimination circuit for tuner section

to FM, Q806 is gradually turned on due to the time constant circuit of R819 and C809 and supplies B+ voltage to the FM tuner circuit.
However, Q206 is turned off during the time constant of R247 and C230 since Q806 is turned on, killing the detector output.
Thus, the interstation or "pop" noise is completely eliminated through these two circuits.
R820 is for discharging C809 when FM circuit is disengaged.
When S1 is changed to AM, Q807 is gradually turned on due to the time constant circuit of R818 and C823, supplying power to the a-m local oscillator at A-M mode.

2. Audio Muting Circuit

This muting circuit is used to eliminate the "pop" noise generated when the POWER switch is set to ON or OFF and operates as follows: Referring to Fig. 1-2, when the POWER switch is set to ON, B+ and B– increase quickly to its normal operating voltage. Q803 is off due to the long time constant circuit of R808 and C807. Q804 and Q603 are forced into conduction as the bleeder circuit R810, R811 and R812 are designed so that the point "C" becomes positive. Thus, noises in the pre-stage amplifiers are effectively grounded through Q603.
About 2.5 seconds later after POWER switch is set to ON, Q803 is on as C807 is fully charged. This grounds point "D", forcing point "C" negative. As a result, Q804 and Q603 are off, stopping the muting. Conversely, when the POWER switch is set to OFF, Q803 is immediately turned off as C807 is discharged by R807. C808 holds positive voltage due to the long time constant circuit of R809 and C808, and D809 (reverse resistance). As a result, Q804 and Q603 are turned on, thus PREAMP OUT is effectively grounded.
Referring to Fig. 1-3, Q805 removes the residual "pop" noises at power off caused by unbalanced discharging characteristics of B+ and B– power supply circuit. These noises cannot be removed by the muting circuit previously described.
Q805 operates as follows:
Q805 is normally off, as the base circuit is reverse biased due to the bleeder circuit.
After power is off, when the difference of absolute value of B+ and B– exceeds some extent, Q805 is forward biased and C901 is discharged quickly through Q805 and R817, maintaining equal discharging of B+ and B– power supply.

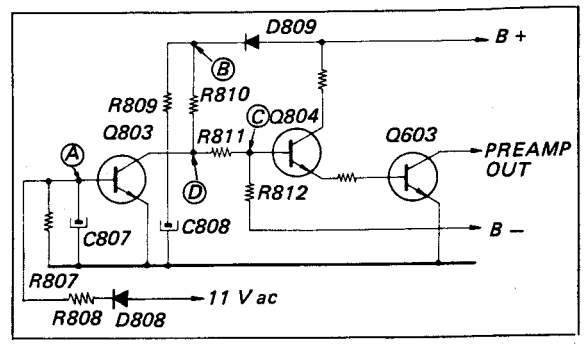


Fig. 1-2. Audio muting circuit (1)

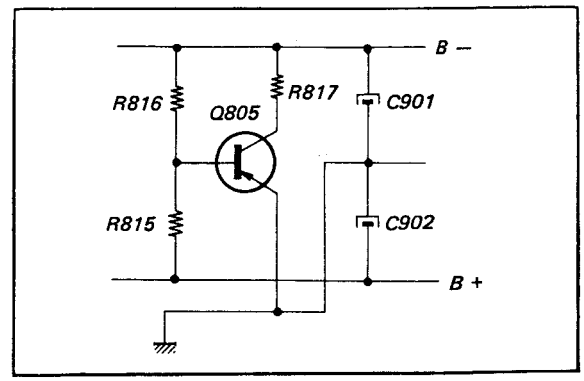


Fig. 1-3. Audio muting circuit (2)

3. Speaker Protection Circuit

In a direct-coupled power amplifier, some faults in transistors appear a large dc voltage across the speaker output terminal.
This might damage a delicate speaker system. The speaker protection circuit is used to remove the dc voltage as shown in Fig. 1-4.
The speaker protection is performed by two ways. One is the circuitry itself (self-defensible) and the other is additional protection circuit (Q708, Q709 and Q710).
They operate as follows:

(1) In case that any of power transistors (Q706, Q707, Q901 and Q902) shorted.
If Q901 is shorted, for example, excessive current flows in this transistor and a large positive dc voltage will appear across the speaker output terminal (point "a" in Fig. 1-4).
This voltage is fed-back to the base of Q703 through R710. Q703 is turned off and Q705 is excessively forward biased. Thereby, large

bias voltage enough to short Q902 is applied to the base of Q707.
As a result, excessive current flows in Q901 and Q902, pulling voltage at point "a" back to zero, then the fuses in the power supply circuit are blown. Same is true when Q902 is shorted, except for the negative dc voltage at point "a". Then Q705 is off and Q901 is forced to short. Thus, speaker is protected even if one of the power transistor is shorted by accident, by forcing the other power transistor into secondary break-down.

(2) In case that any of Q701, Q702, Q703 shorted Q705 is forced to either excessively forward biased or cutoff.

When Q705 is excessively forward biased

Q707 and Q902 are turned on and negative dc voltage will appear at point "a". This voltage turns Q709 and Q710 on, shorting Q707 base to ground. As a result, current flows in Q707 and Q902 decrease and the point "a" voltage becomes effectively low.

When Q705 is forced to cutoff

Q706 and Q901 are turned on and the positive dc voltage will appear at point "a". This voltage turns Q708 on, shorting Q706 base to ground and maintaining the point "a" voltage low as previously described.

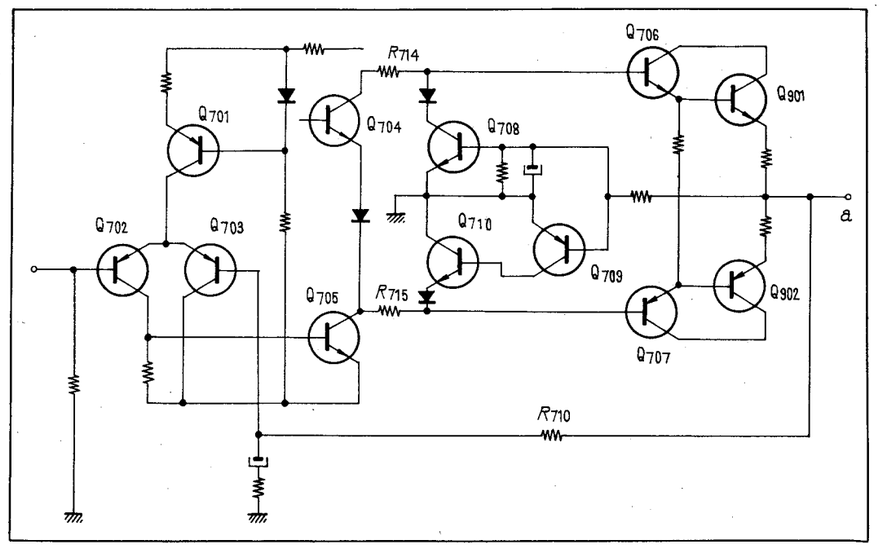
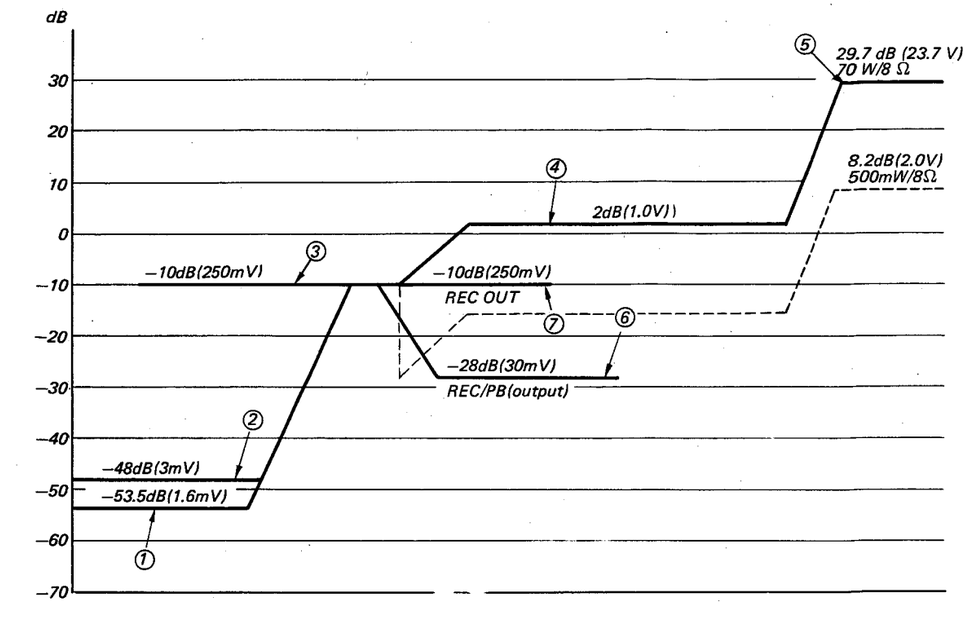
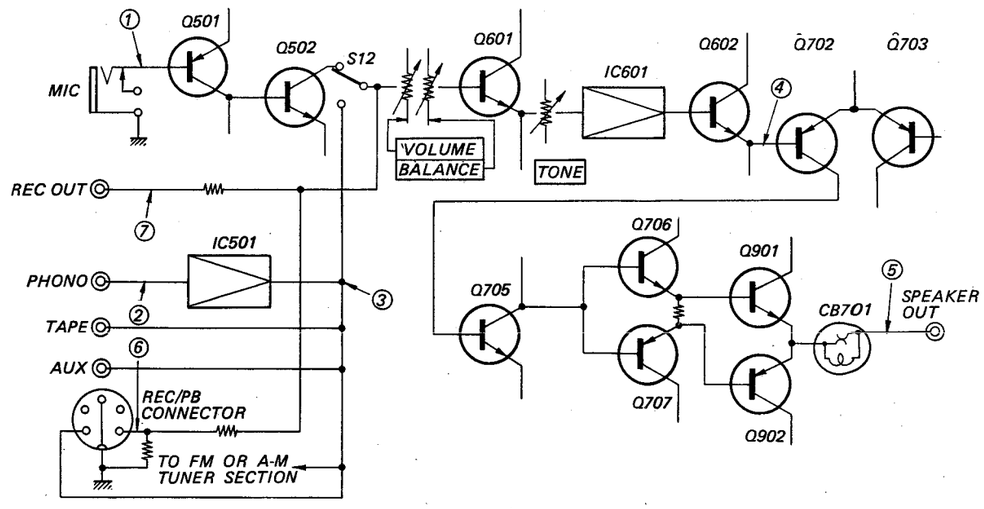


Fig. 1-4. Speaker protection circuit

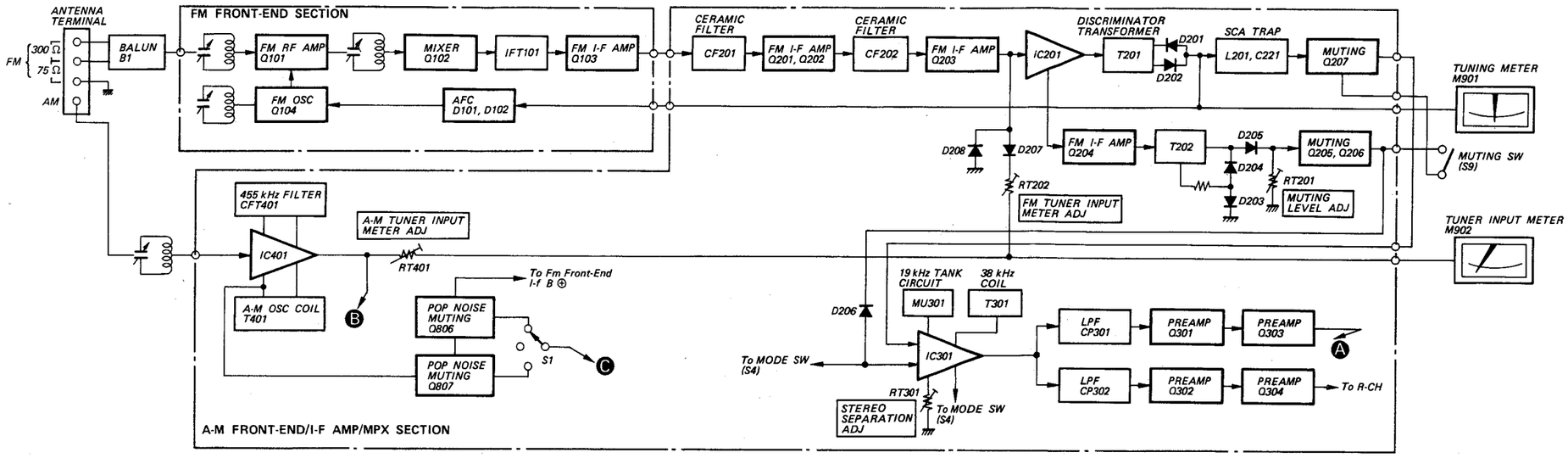
1-3. LEVEL DIAGRAM

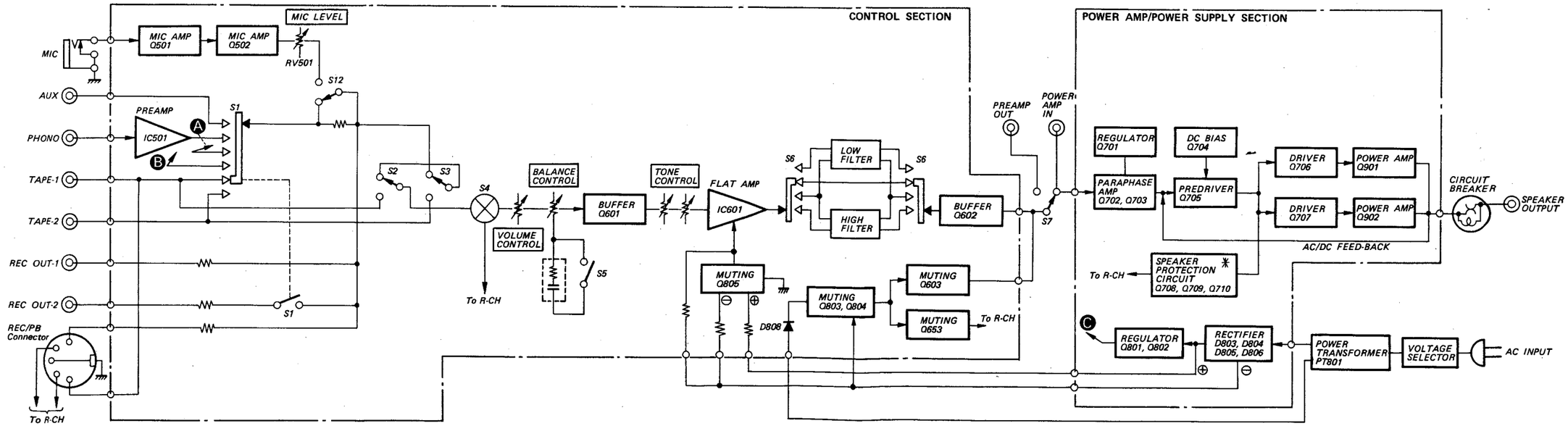




Note: Signal voltages are measured with an ac VTVM at continuous RMS power output and expressed in dB referred to 0.775 V, 1 kHz.

1-4. BLOCK DIAGRAM





✳For USA Model with Serial No. up to 808,100, Q708, Q709, and Q710 correspond to Q709, Q710, and Q711, respectively.

SECTION 2
DISASSEMBLY AND REPLACEMENT

Note: All screws are Phillips (cross recess) type unless otherwise indicated.
(−): slotted head

2-1. BOTTOM PLATE REMOVAL

Remove the eight self-tapping screws shown in Fig. 2-1. This frees the bottom plate.

2-2. FRONT PANEL REMOVAL

1. Remove all the knobs on the front panel.
2. Remove the three self-tapping screws shown in Fig. 2-1.
3. Remove the three screws shown in Fig. 2-2. This frees the front panel.

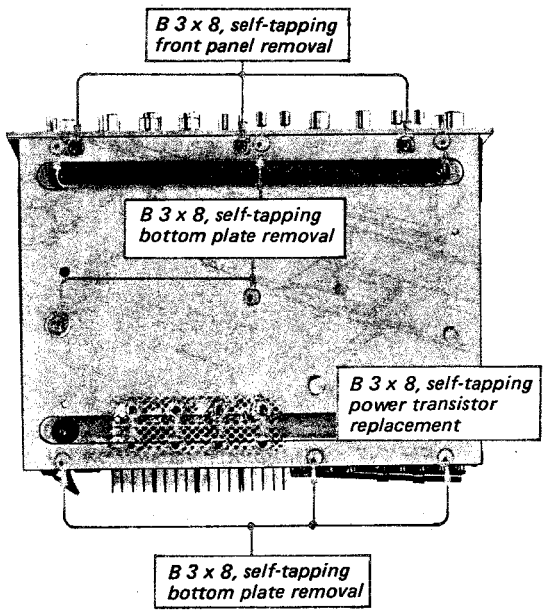


Fig. 2-1. Bottom plate and front panel removal

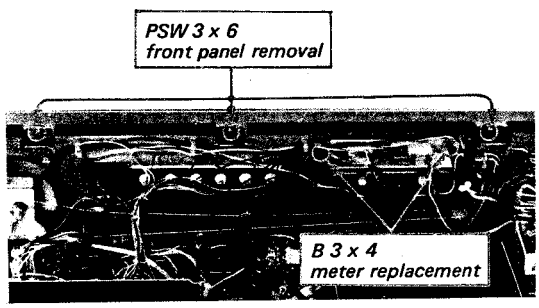


Fig. 2-2. Front panel removal and meter replacement

2-3. DIAL-CORD RESTRINGING

Preparation

1. Cut a 1,600 mm (63-inch) length of 0.3 mm ($^1/_{64}$-inch) diameter dial cord.
2. Turn the tuning shaft fully clockwise.
3. Install the tuning drum as shown in Fig. 2-4.
4. Tie the end of the cord to a spring as shown in Fig. 2-3.
5. Hook the spring to the stud of drum as shown in Fig. 2-4.

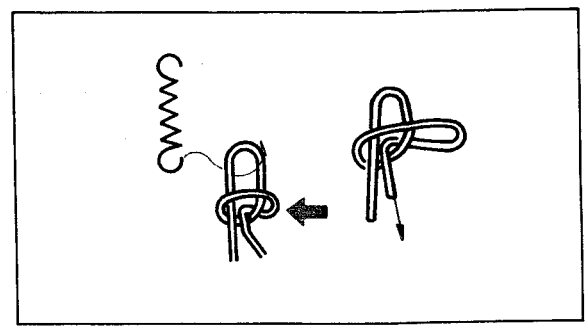


Fig. 2-3. Tying square knot at the tension spring

Procedure

1. String the dial cord in order as shown in Fig. 2-4.

   Note: At the finish point, pass the doubled end of the cord through the eyelet (see Fig. 2-5) and tighten the cord and squeeze the eyelet so that the spring is under tension. Make two knots at the cord end to keep it from slipping out of the eyelet as shown in Fig. 2-5.

2. After completing the dial crod stringing, make sure that the tuning system properly works.
3. Put the pointer on the pointer guide as shown in Fig. 2-6 and bend the pointer guide tab as shown in Fig. 2-7, if necessary.
4. Tune the receiver to the local fm station. Move the pointer to the position where the dial indication coincides with the local station's carrier frequency. Apply a drop of contact cement to it.

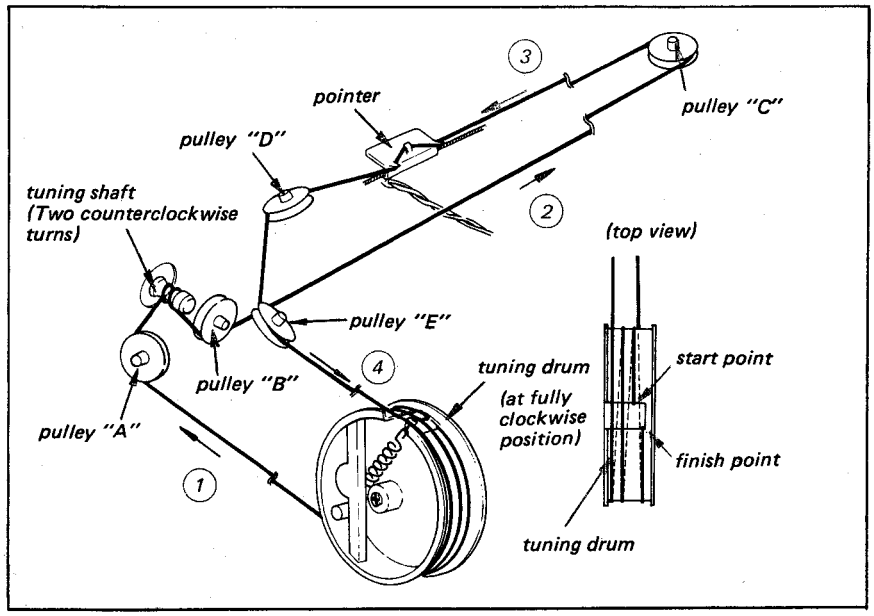


Fig. 2-4. Dial cord stringing

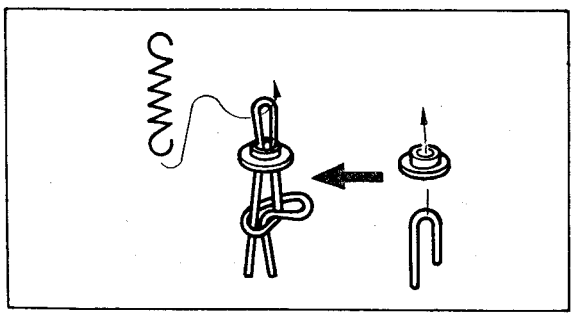


Fig. 2-5. Details of dial cord finish

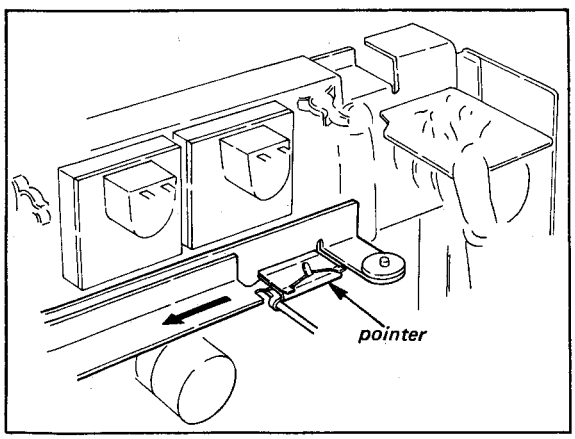


Fig. 2-6. Dial pointer installation (1)

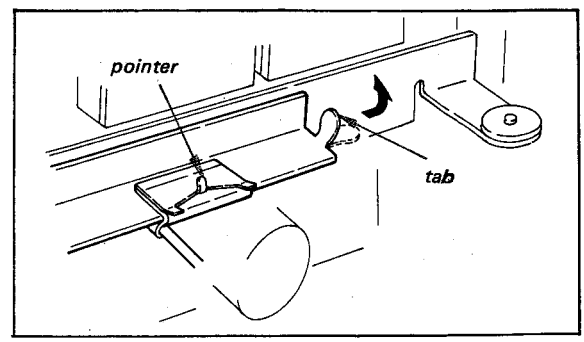


Fig. 2-7. Dial pointer installation (2)

2-4. POWER TRANSISTOR REPLACEMENT

1. Remove the twelve self-tapping screws from heat sink brackets (eight at rear bottom and four rear top) as shown in Fig. 2-1 and Fig. 2-8.

2. Remove the two screws securing the power transistor to the heat sink.

Note: When replacing the power transistor, apply a coating of a heat-transferring grease to both sides of the mica insulator. Any excess grease squeezed out when the mounting bolts are tightened should be wiped off with a clean cloth. This prevents it from accumulating conductive dust particles that might eventually cause a short.

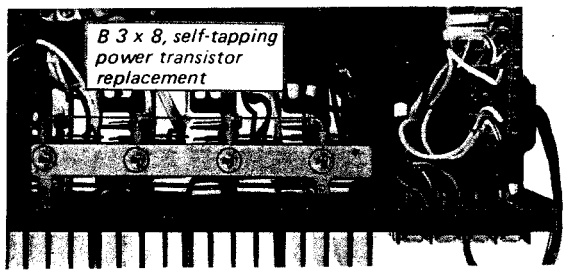


Fig. 2-8. Power transistor replacement

2-5. DIAL GLASS REMOVAL

Remove the five screws shown in Fig. 2-9. This frees the dial glass.

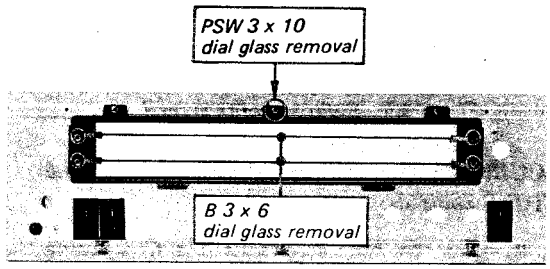


Fig. 2-9. Dial glass removal

2-6. METER REPLACEMENT

1. Remove the meter lamp shade by taking out the two screws shown in Fig. 2-2.
2. Carefully remove the defective meter from the front subchassis and install a new one.

2-7. VOLUME CONTROL REPLACEMENT

1. Remove the power amp/power supply board by taking out the two nylon rivets.
2. Remove the power amp board bracket (c) located near the front subchassis by taking out the screw as shown in Fig. 2-11.
3. Remove the front panel as described in Procedure 2-2.
4. Remove the nut securing the VOLUME control to the front subchassis shown in Fig. 2-10.

(continued to page 12.)

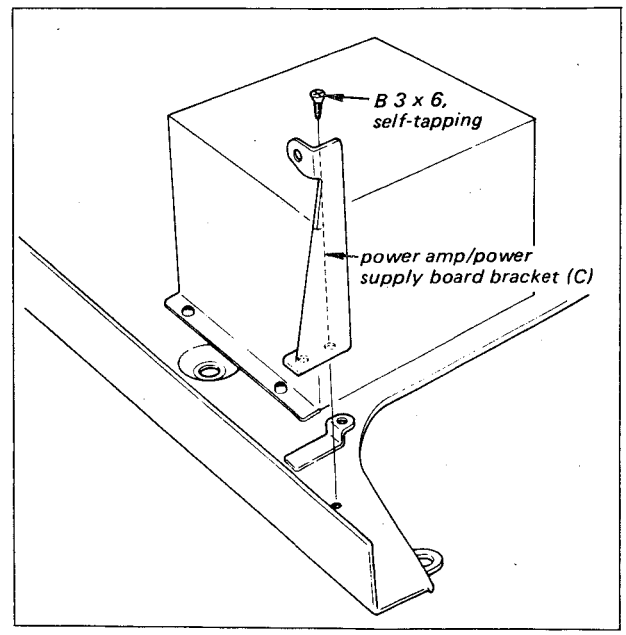


Fig. 2-11. VOLUME control replacement

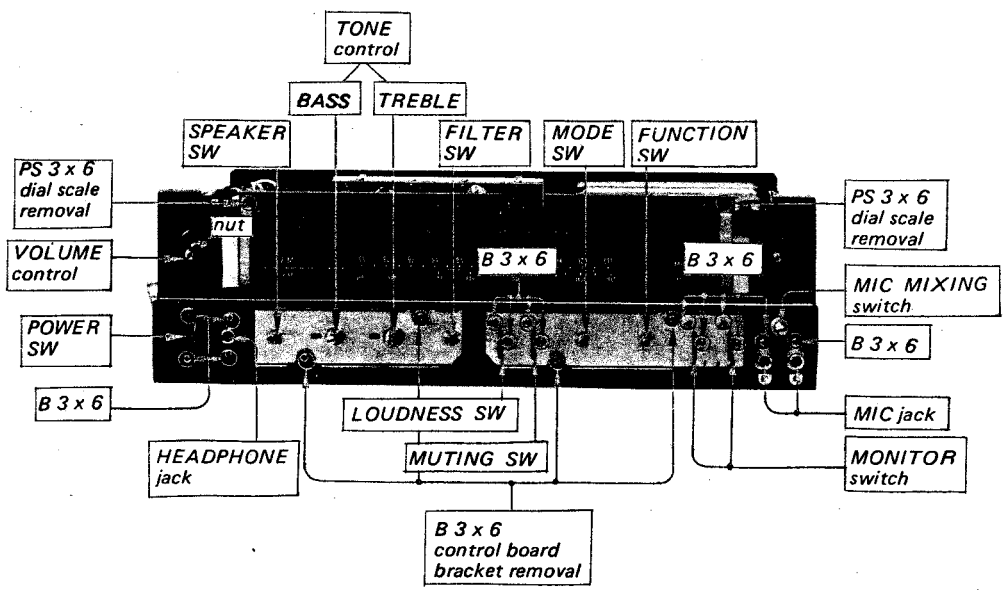


Fig. 2-10. Control, jack and switch replacement (1)

5. Remove the loudness control board along with the VOLUME control.
6. Cut each lug of the defective control on the board.
7. Unsolder and remove the clipped lugs, and clean out the holes in the printed circuit board.
8. Install a new one.

2-8. CONTROL, JACK AND SWITCH REPLACEMENT

Prepare for replacing any of the controls, jacks or switches by removing the front panel described in Procedure 2-2.

Note: Before removing the front subchassis, fasten the dial cord to the drum, pulleys with cellophane tape. This helps you to restring the dail cord.

POWER, MIC MIXING Switches and HEADPHONE, MIC Jacks

1. Remove two screws or the nut securing the defective switch or jack to front subchassis as shown in Fig. 2-10.
2. Unsolder the leads of defective switch or jack.
3. Install a new one.

SPEAKER, FILTER, MODE and FUNCTION Switches

1. Remove the retaining ring securing the defective switch, located at the back side of control board bracket, as shown in Fig. 2-12.
2. Pull out the shaft of the defective switch with a screwdriver as shown in Fig. 2-13.

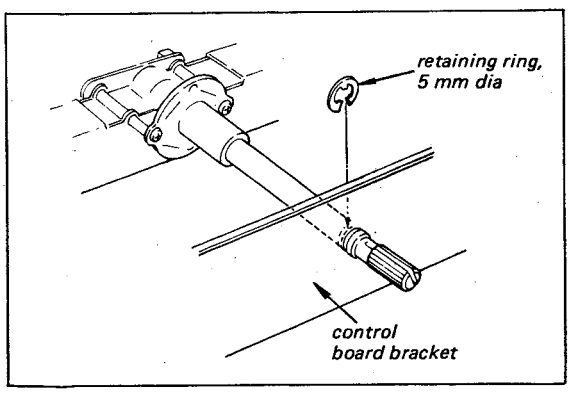


Fig. 2-12. Control board removal

3. Remove the bottom plate as described in Procedure 2-1.
4. With a soldering iron having a solder-sucking tip, clean the solder from each lug of the defective switch and the printed circuit board.
5. Remove the defective switch and install a new one.

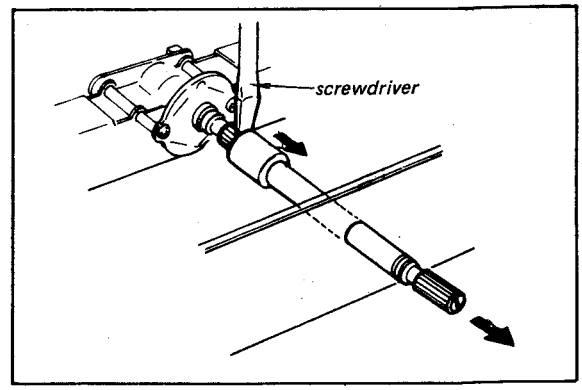


Fig. 2-13. Switch shaft removal

LOUDNESS, MUTING, MONITOR Switches and TONE controls

1. Remove the four screws (B 3 x 6) securing the control board bracket to the front subchassis as shown in Fig. 2-10.
2. Remove the three screws (PSW 3 x 6) securing the control board to the chassis as shown in Fig. 2-14.
3. Remove the nut securing the defective control or two screws (B 3 x 6) securing the defective switch to the control board bracket as shown in Fig. 2-10.
4. Remove the bottom plate as described in Procedure 2-1.
5. Move the control board toward power transformer as far as it goes. This helps in unsoldering the defective part on the board.
6. With a soldering iron having a solder-sucking tip, clean the solder from each lug of the defective part and the printed circuit board.
7. Remove the defective part and install a new one.

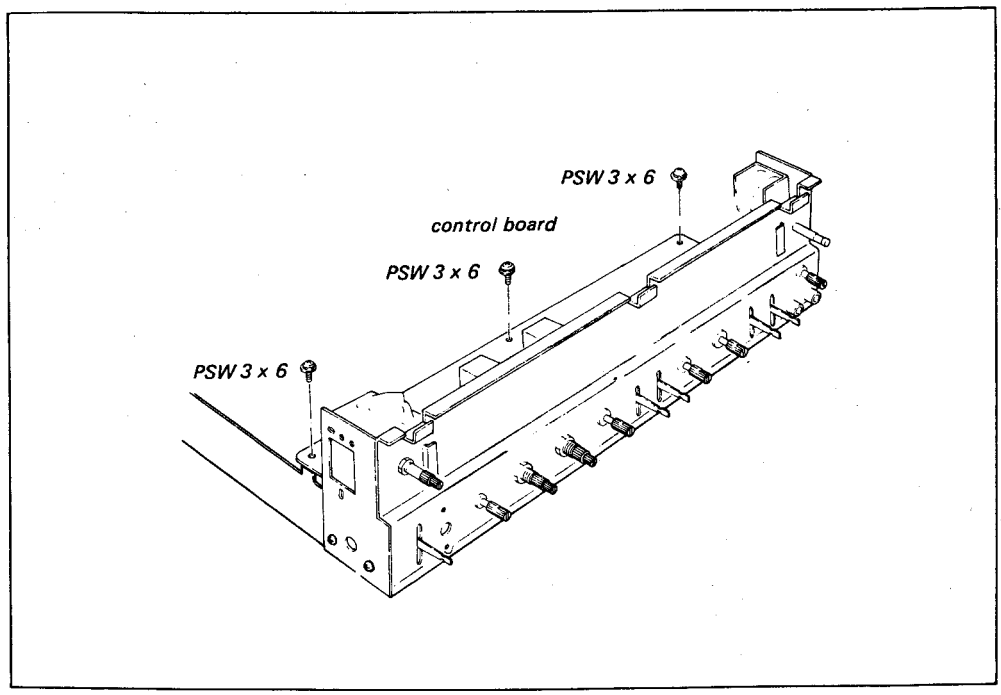


Fig. 2-14. Control, jack and switch replacement (2)

2-9. CHASSIS LAYOUT

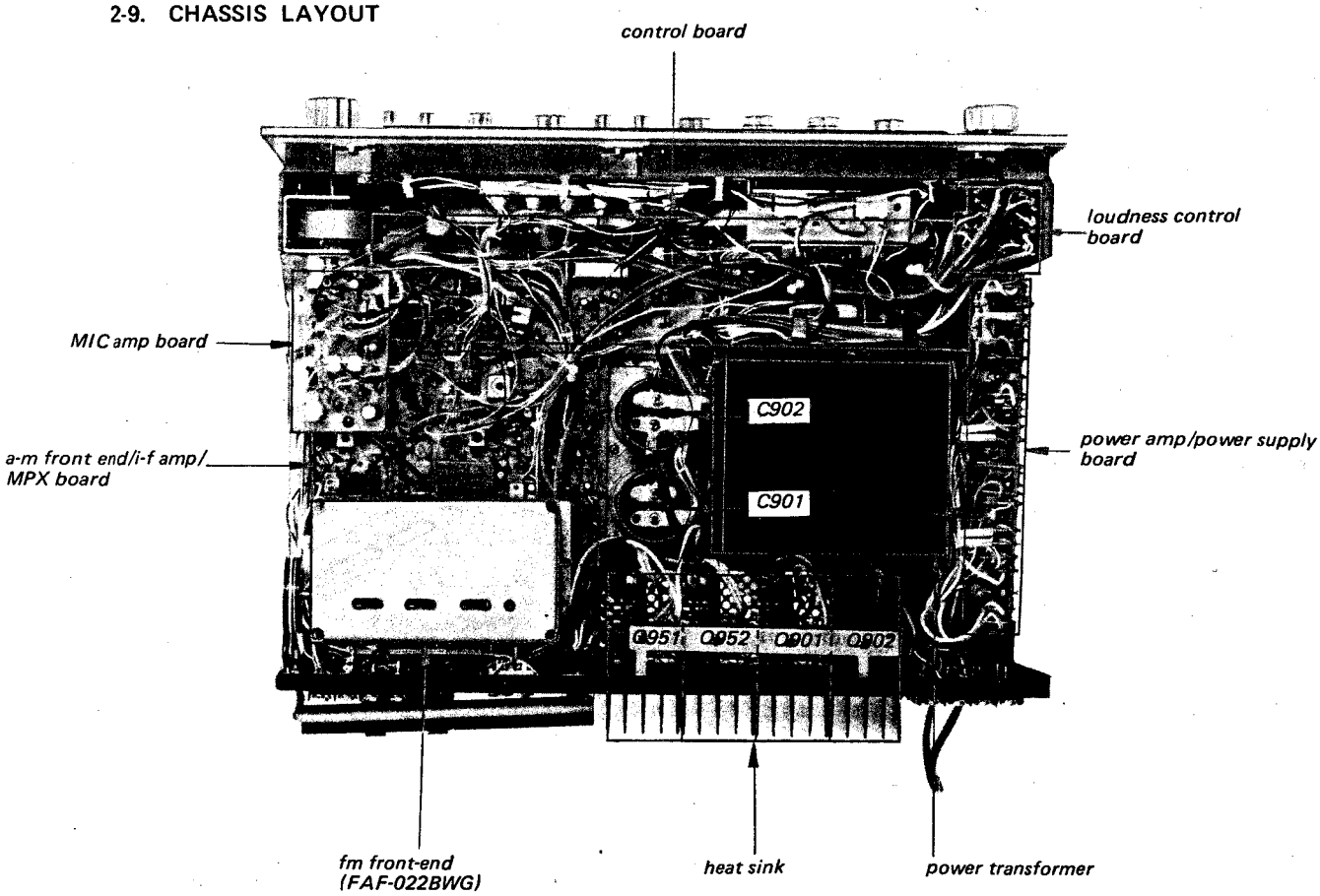


Fig. 2-15. Chassis layout

SECTION 3

ALIGNMENT AND ADJUSTMENTS

3-1. FM I-F STRIP ALIGNMENT

CAUTION

The ceramic filters in the fm i-f circuit are selected according to their specified center frequencies and color coded as shown in Fig. 3-1, and listed in Table 3-1. Check the color code of the filters to identify the same center frequency when replacing any of these filters.

TABLE 3-1.

FM I-F CERAMIC FILTERS		
Part No.	*Color*	*Specified Center Freq.*
1-527-507-12	red	10.70 MHz
1-527-507-22	black	10.66 MHz
1-527-507-32	white	10.74 MHz
1-527-507-42	green	10.62 MHz
1-527-507-52	yellow	10.78 MHz

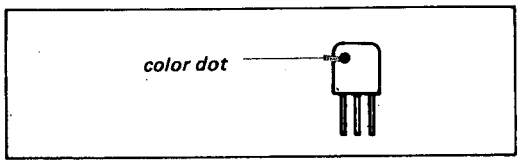


Fig. 3-1. Fm i-f ceramic filter

Note: Fm i-f strip alignment should be performed only after replacing IFT101 in the front-end.

Test Equipment Required

1. Fm signal generator
2. Ac VTVM
3. Oscilloscope
4. Alignment tools
5. Monitor speaker

Preparation

1. Remove the wooden case.
2. Connect the test equipment and a monitor speaker as shown in Fig. 3-4.
3. Short the test point of R226 on the a-m front end/i-f amp/MPX board (AFC circuit) to ground as shown in Fig. 3-2.

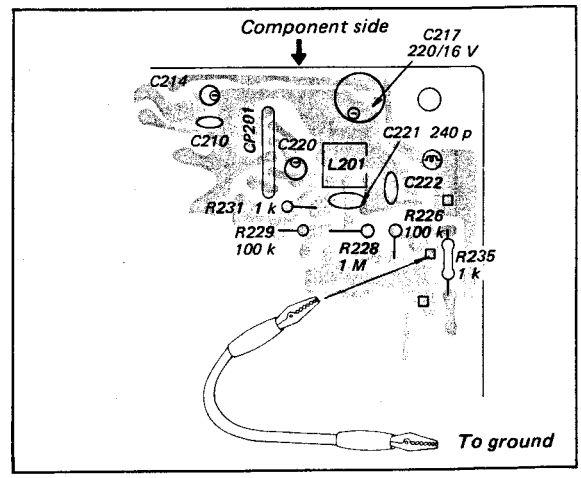


Fig. 3-2. Interruption of afc circuit

Procedure

Note: All signal generator output levels specified in this section are for terminated outputs.

1. With the equipment connected as shown in Fig. 3-4, set the signal generator controls as follows:

   Carrier frequency . . . . . 98 MHz
   Modulation . . . . . Fm, 400 Hz, 100 % (75 kHz deviation)
   Output level . . . . . 30 μV (30 dB) terminated

2. Set the receiver controls as follows:

   FUNCTION switch . . . . . FM
   VOLUME control . . . . . minimum

3. Precisely tune the receiver to the SG carrier frequency by tuning for zero center or the TUNING meter. Adjust IFT101 for maximum deflection on the TUNER INPUT meter. Carefully adjust

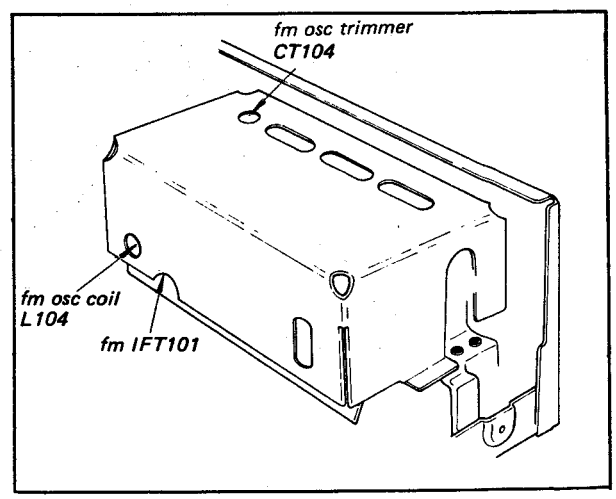


Fig. 3-3. Adjustment parts location

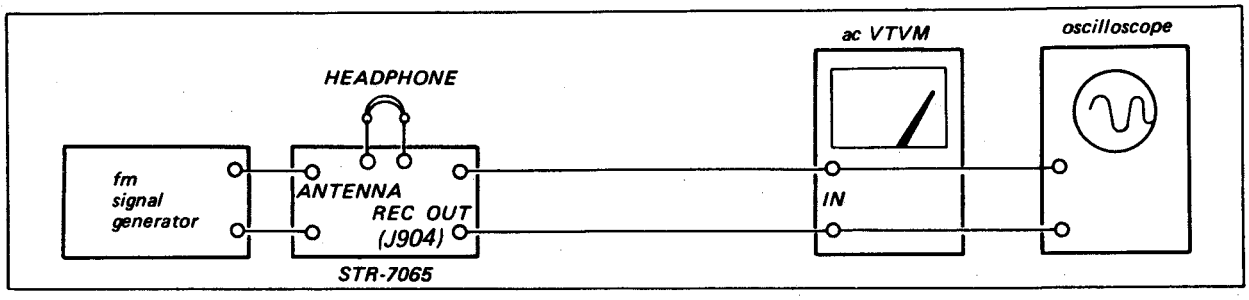


Fig. 3-4. Fm i-f, discriminator, muting and front-end alignment test setup

this slug so that maximum reading on the TUNER INPUT meter always coincides with zero center on the TUNING meter (Rock the TUNING control while observing the two meters and make the adjustment).

Adjust the bottom core (primary side) of T201 (see Fig. 3-11) for maximum output on the Ac VTVM. Then precisely adjust it so that the Ac VTVM indication falls as the set is detuned in either direction (max output corresponds to zero center on the TUNING meter).

3-2. FM DISCRIMINATOR ALIGNMENT

Note: There are two or three methods of discriminator alignment, but only the simplified method using the tuner TUNING meter is described here.

Test Equipment Required

1. Oscilloscope
2. Alignment tools
3. Monitor speaker

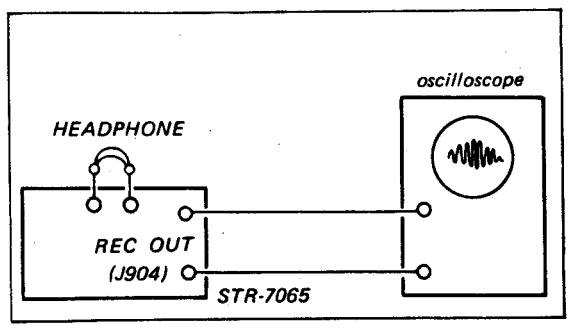


Fig. 3-5. Discriminator alignment test setup

Preparation

1. Remove the wooden case.
2. Connect the input cable of the oscilloscope to REC OUT jack (J904) as shown in Fig. 3-5.
3. Short the test point of R226 on the a-m front end/i-f amp/MPX board (AFC circuit) to ground as shown in Fig. 3-2.

Procedure

1. With the equipment connected as shown in Fig. 3-4, set the receiver controls as follows:

   FUNCTION switch . . . . . FM
   VOLUME control . . . . . minimum
   MUTING . . . . . OFF

2. Tune the receiver to a vacant spot in the band (no signal input). Listen to the monitor speaker and watch the oscilloscope to confirm that the tuner is not receiving any off-the-air signal.
3. Turn the top core (secondary side) of T201 discriminator transformer (see Fig. 3-11) with a hex-head alignment tool to obtain a null-point reading on the TUNING meter. If the discriminator transformer (T201) is not aligned correctly, some deviation on the TUNING meter will be observed.

   Note: Turn the core carefully and slowly. At both extreme positions of the top core, a null point will be observed. The real null point should be obtained in the middle of the core thread length.

4. Repeat the above mentioned steps and fm i-f strip alignment (procedure 3-1) alternately two or three times.

3-3. FM FREQUENCY COVERAGE ALIGNMENT

CAUTION

Never attempt alignment of the front-end section except for the frequency-coverage and dial-calibration adjustments. The front-end section of the receiver has been carefully adjusted at the factory, so very little adjustment is necessary in the field. Alignment need not be performed when the front-end FET is replaced since changes in FET parameters have little effect upon tuning. If an rf-stage adjustment is required, ask your nearest SONY Service Station to send your unit to the Factory Service Center for a complete front-end alignment. Exercise caution when returning the faulty unit so that it is not damaged in transit. The warranty will not cover damage incurrent in transit to the Factory Service Center.

Note: Before starting this alignment, the discriminator alignment should be performed.

Signal Generator Method

Test Equipment Required

1. Fm signal generator
2. Ac VTVM
3. Alignment tools

Preparation

1. Short the test point of R226 (AFC circuit) to ground as shown in Fig. 3-2.
2. Connect the test equipment as shown in Fig. 3-4.
3. Set the receiver controls as follows:

   FUNCTION switch . . . . . FM
   VOLUME control . . . . . minimum

Procedure

Follow the procedures given in Table 3-2 when performing this alignment with an fm signal generator. Be sure that the dial is mechanically calibrated as described in Procedure 2-3 on page 9.

Off-the-Air Signal Method

Frequency coverage alignment can also be performed by utilizing off-the-air local fm signals. However, before performing the following procedure, be sure that the dial pointer is correctly positioned as described in Procedure 2-3 on page 9.

Procedure

1. Tune the receiver to the lowest-frequency station.
2. Check the dial scale for a calibration accuracy of ±100kHz from the carrier frequency of the station. If the dial-accuracy deviation exceeds this limit, turn the local-oscillator coil L104 (see Fig. 3-3) slightly until optimum dial calibration is obtained.
3. Tune the receiver to the highest-frequency station in your locality. If the dial-calibration error is excessive, adjust local-oscillator trimmer CT104 (see Fig. 3-3) to obtain maximum calibration accuracy.

3-4. FM STEREO SEPARATION ADJUSTMENT

Test Equipment Required

1. Fm stereo signal generator
2. Ac VTVM
3. Oscilloscope

TABLE 3-2 FM FREQUENCY COVERAGE ALIGNMENT

Step	Coupling Between Tuner and SG	SG Frequency and Output Level (terminated)	Receiver Dial Setting	AC VTVM Connection	Adjust	Indication
1.	Direct	87.5 MHz, 400 Hz 100 % (75 kHz deviation) Mod. Output level: as low as possible	87.5 MHz	REC OUT Jack (J904)	OSC coil L104 See Fig. 3-3	Maximum VTVM reading
2.		108 MHz, 400 Hz 100 % (75 kHz deviation) Mod. Output level: as low as possible	108 MHz		OSC trimmer CT104 See Fig. 3-3	

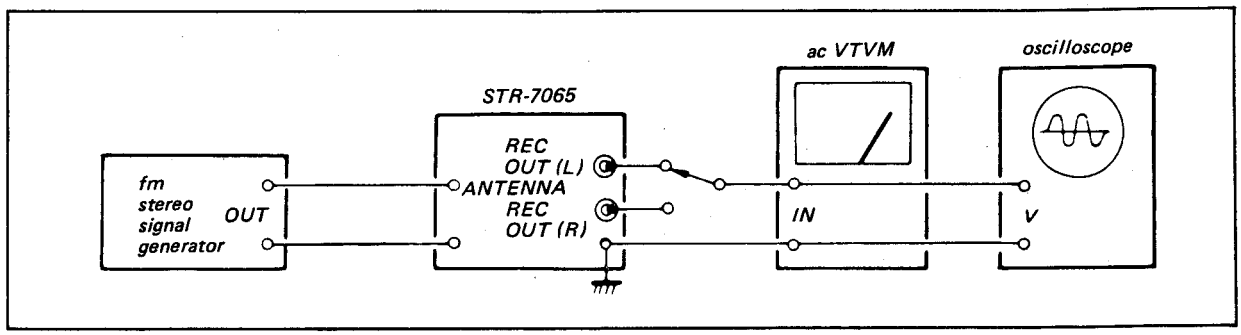


Fig. 3-6. Fm stereo separation adjustment test setup

Preparation

1. Remove the wooden case.
2. Connect the test equipment as shown in Fig. 3-6, then set the fm stereo signal generator controls as follows:

Carrier frequency	98 MHz
Output level	1,000 μV (60 dB)
Mode	Stereo
Audio (400 Hz) Mod	67.5 kHz (90 %) ※
Pilot (19 kHz) Mod	7.5 kHz (10 %)

※ **Note:** 75 kHz (100 %) if the metering indicates total modulation (audio-pilot).

Procedure

1. Precisely tune the receiver to the carrier frequency of stereo signal generator, then turn the top core of switching transformer T301 (see Fig. 3-11) to obtain maximum output at the left channel. Note that this adjustment has a close relationship with stereo distortion.
2. Record the output level of the left channel when the stereo signal generator input selector is set to the left channel.
3. Switch the stereo signal generator input selector to the right channel and read the residual signal level in the left channel.
4. The output-level to residual-level ratio represents the separation. Adjust separation adj. control RT301 (see Fig. 3-11) for minimum residual level. Check the right channel for separation. Usually, about an 8 to 9 dB difference in channel separation exists. Readjust RT301 for minimum difference between left- and right-channel separation. While doing this, remember that the output level also changes according to the setting of RT301.

3-5. MUTING ADJUSTMENT

Note: Readjustment is necessary after replacing Q204 (FET) or if the muting point upon TUNING meter deflection is not symmetrical when detuning higher or lower than the reference carrier frequency. Two methods of muting adjustment are available, signal generator adjustment and adjustment by using an off-the-air signal. You can use either of them.

Signal Generator Method

Test Equipment Required

1. Fm signal generator
2. Ac VTVM or oscilloscope
3. Screwdriver with 3 mm ($^1/_8$") blade

Preparation

1. Remove the wooden case.
2. Short the test point of R226 on the a-m front end/i-f amp/MPX board (AFC circuit) to ground as shown in Fig. 3-2.

Procedure

1. With the equipment connected as shown in Fig. 3-4, set the signal generator and receiver controls as follows:

Carrier frequency	98 MHz
Modulation	Fm, 400 Hz, 100 %
Output level	1,000 μV (60 dB)
FUNCTION switch	FM
VOLUME CONTROL	minimum

2. Turn RT201 (see Fig. 3-11) fully clockwise.

TABLE 3-3 MUTING ADJUSTMENT

Coupling Between Tuner and SG	SG Frequency and Output Level	Receiver Dial Setting	Adjust	Remarks
Direct	98 MHz 400 Hz 30 % Mod. 1,000 μV (60 dB)	98 MHz	T202 See Fig. 3-11.	Turn T202 to obtain proper muting operation.

3. Follow the procedure given in Table 3-3. Tune the receiver to the SG frequency, then adjust T202 (See Fig. 3-11) for proper muting operation. Muting should begin at point equidistant from zero center.

Off-the-Air Signal Method

Accurate muting adjustment can also be performed by utilizing an off-the-air local fm signal instead of the fm SG.

3-6. A-M I-F STRIP ALIGNMENT

Note: The i-f transformers (CFT401 and T402) in the a-m i-f amplifier circuit are adjusted at the factory, so very little adjustment is necessary in the field even if replacing any of these i-f transformers.

3-7. A-M FREQUENCY COVERAGE AND TRACKING ALIGNMENT

Note: Before performing the following procedure, make sure that the dial pointer is correctly positioned as described in Procedure 2-3 on page 9.

Preparation

Connect the input cable of ac VTVM or oscilloscope to REC OUT jack as shown in Fig. 3-7.

Signal Generator Method

Test Equipment Required

1. A-m signal generator
2. Loop antenna
3. Ac VTVM or oscilloscope

Procedure

With the equipment connected as shown in Fig. 3-7, follow the procedures given in Table 3-4 when performing this alignment with an a-m signal generator.

Off-the-Air Signal Method

Accurate frequency-coverage and tracking alignment can also be performed by utilizing off-the-air local a-m signals.

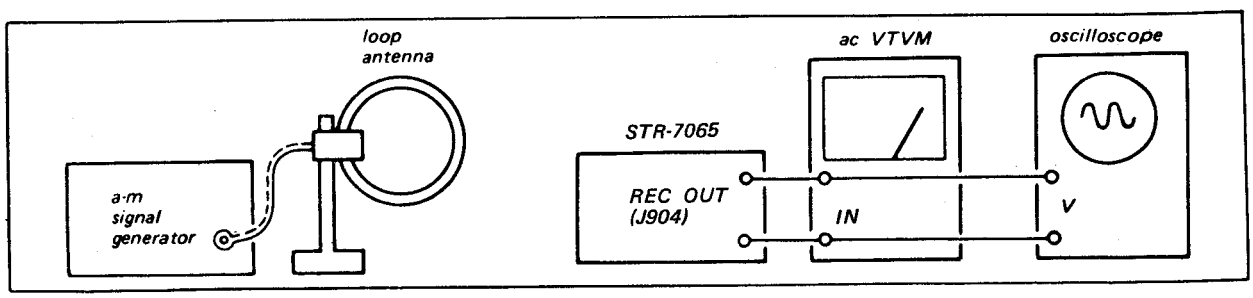


Fig. 3-7. A-m frequency coverage and tracking alignment test setup

TABLE 3-4. A-M FREQUENCY COVERAGE AND TRACKING ALIGNMENT

	A-M FREQUENCY COVERAGE ALIGNMENT		SG Coupling . . . . Loop Antenna SG Output Level . . 400 Hz, 30 % (as low as possible)		
Step	**SG Frequency**	**Receiver Dial Setting**	**Ac VTVM Connection**	**Adjust**	**Indication**
1.	550 kHz	550 kHz	REC OUT	OSC coil T401 See Fig. 3-11.	Maximum VTVM reading
2.	1,600 kHz	1,600 kHz		OSC trimmer CT402 See Fig. 3-11.	
	A-M TRACKING ALIGNMENT		**SG Coupling . . . . Loop Antenna SG Output Level . . 400 Hz, 30 % (as low as possible)**		
1.	600 kHz	Tune to the SG signal.	REC OUT	Bar antenna coil L901	Maximum VTVM reading
2.	1,400 kHz			Antenna trimmer CT401 See Fig. 3-11.	

3-8. TUNER INPUT METER CALIBRATION

Test Equipment Required

1. Signal generator (SG)
2. Ac VTVM
3. Loop antenna
4. Alignment tools

Preparation

1. Remove the wooden case.

Procedure

a. FM

1. Connect the test equipment as shown in Fig. 3-8.
2. Set the fm signal generator and receiver controls as follows:

Carrier frequency	98 MHz
Output level	60 dB
Modulation (400 Hz)	100 % (75 kHz deviation)
VOLUME control	Minimum
FUNCTION switch	FM
MODE switch	MONO
MONITOR switch	SOURCE

3. Precisely tune the receiver to the signal and adjust RT202 (see Fig. 3-11.) to obtain the meter pointer within 1 mm ($\frac{3}{64}$") left of its maximum indication as shown in Fig. 3-9.

b. A-M

1. Connect the test equipment as shown in Fig. 3-10.
2. Set the a-m signal generator and receiver controls as follows:

Carrier frequency	1,000 kHz
Output level	104 dB/m at a-m bar antenna
Modulation (400 Hz)	30 %
VOLUME control	Minimum
FUNCTION switch	AM
MODE switch	MONO
MONITOR switch	SOURCE

3. Precisely tune the receiver to the signal and adjust RT401 (see Fig. 3-11.) to obtain the meter pointer within 1 mm ($\frac{3}{64}$") left of its maximum indication as shown in Fig. 3-9.

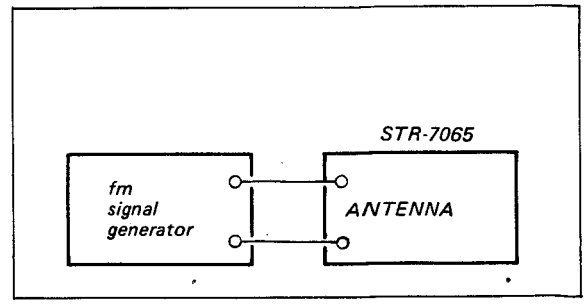


Fig. 3-8. Tuner input meter calibration test setup (Fm)

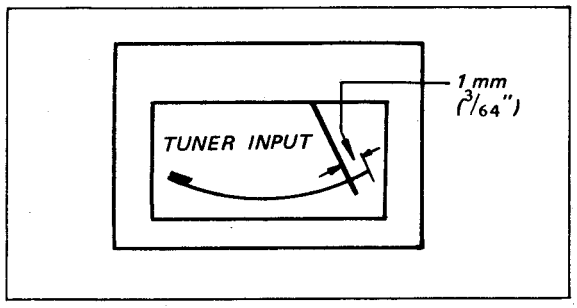


Fig. 3-9. TUNER INPUT meter calibration

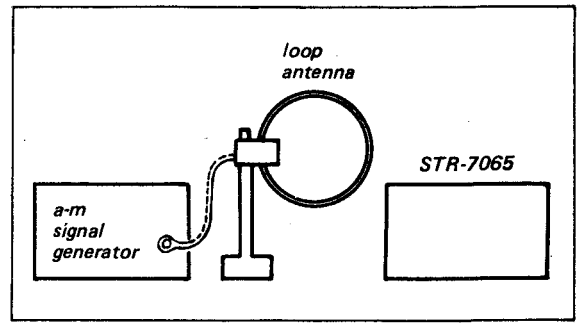
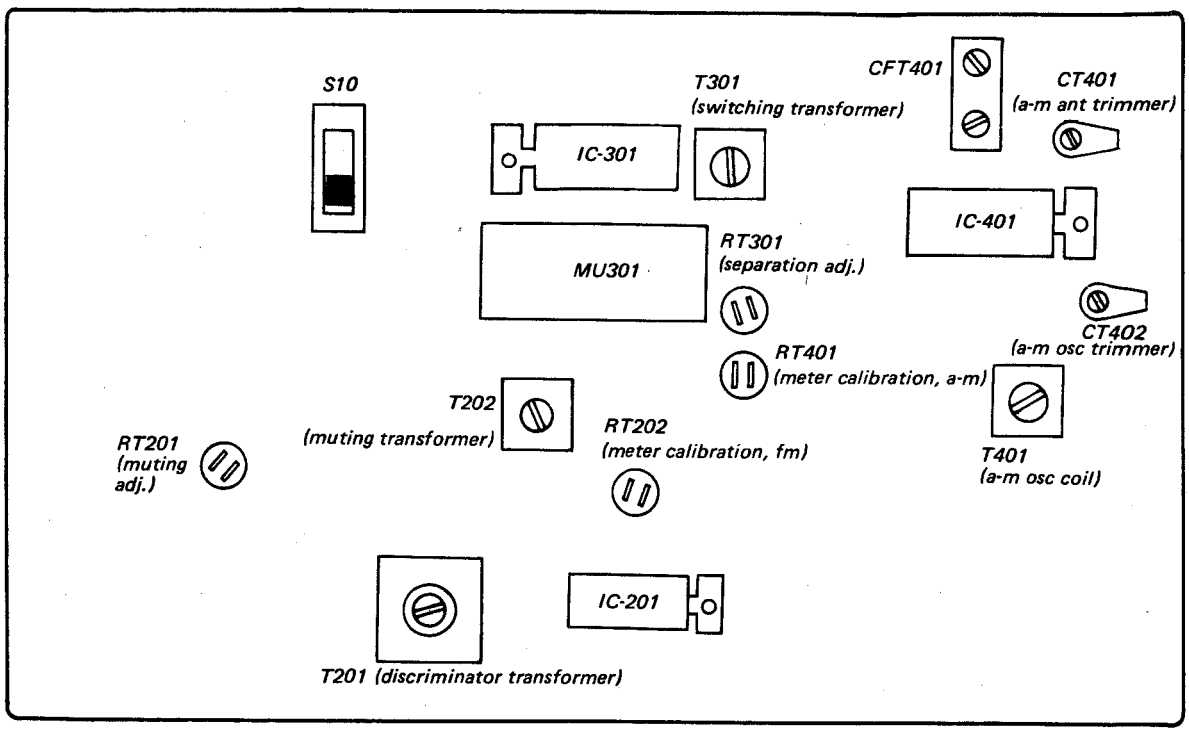


Fig. 3-10. Tuner input meter calibration test setup (A-m)

Adjustment Parts Location

rear panel side

A-m Front-End/I-f Amplifier/MPX Board
– Component Side –



front panel side

Fig. 3-11. Adjustment parts location

3-9. POWER-AMPLIFIER ADJUSTMENT

Dc-Bias Adjustment

Serious deficiencies in performance, such as thermal runaway of power transistors, will result if this adjustment is improperly done.

CAUTION

To avoid accidental power transistor damage, increase the ac line voltage gradually, using a variable transformer.

Test Equipment Required

1. Dc millivoltmeter
2. Variable transformer
3. Screwdriver, 3 mm ($^1/_8$") blade

Preparation

1. Remove the wooden case.
2. Connect the dc millivoltmeter across the test points as shown in Fig. 3-12.
3. Turn the adjustable resistors RT701 and RT751 (see Fig. 3-12) on the power amp/power supply board fully counterclockwise.
4. Set the variable transformer for minimum output.

Procedure

1. Turn on POWER switch, and increase the line voltage up to the rated value.
2. Allow about five minutes for warm-up.
3. Adjust RT701 (RT751) for 50 mV reading on the meter.

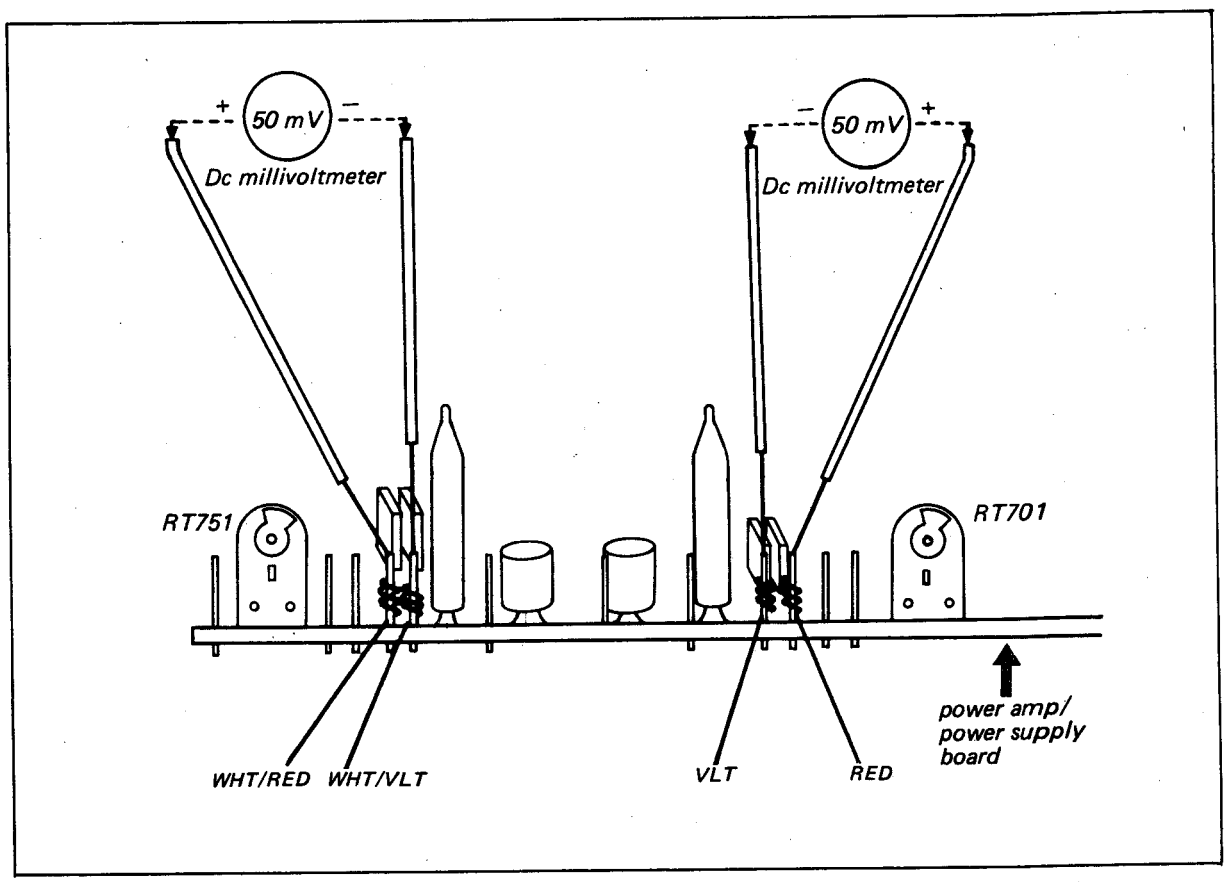


Fig. 3-12. Power-amplifier adjustment test setup

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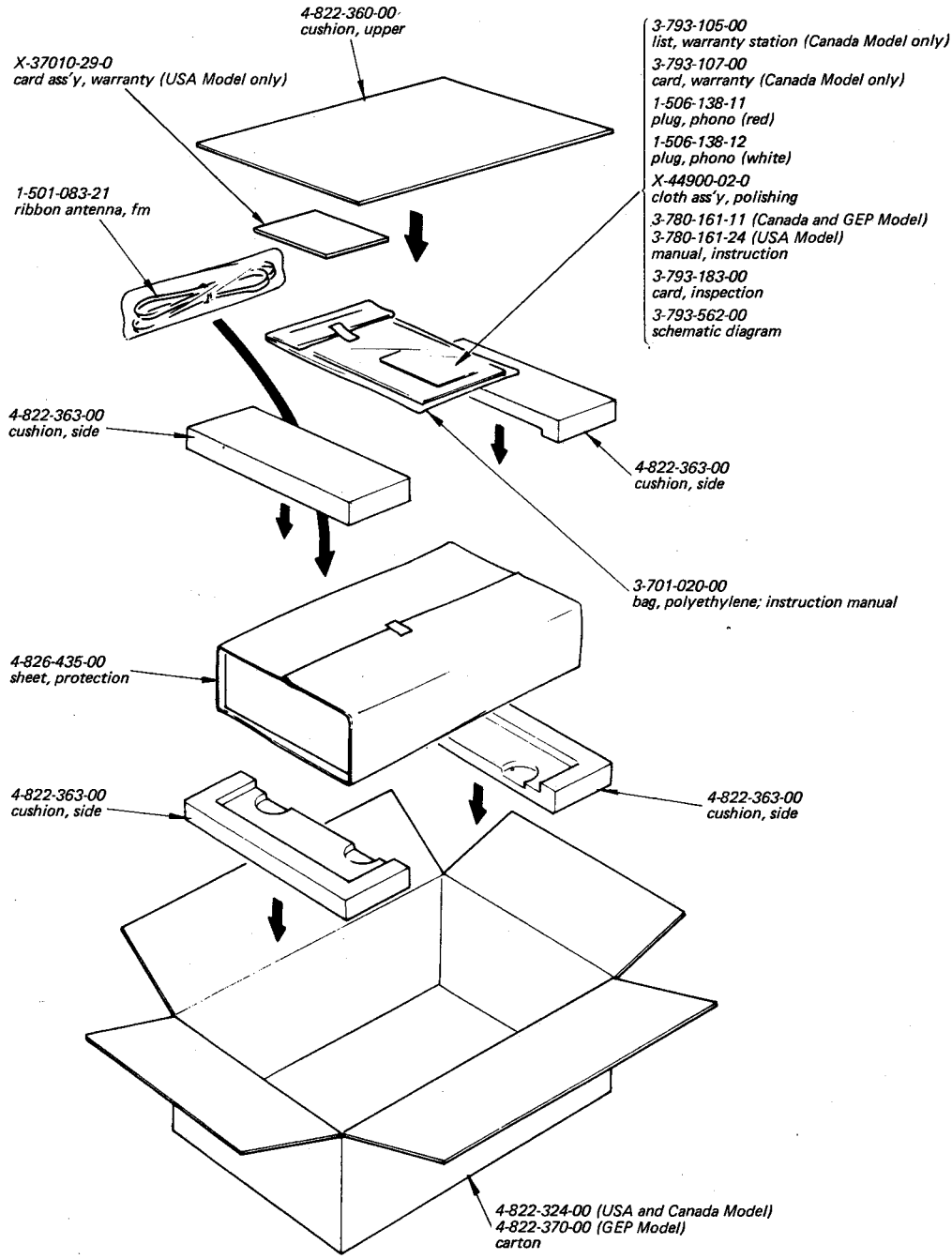
SECTION 4
REPACKING

The STR-7065 origianl shipping carton and packing materials are the ideal containers for shipping the unit. For the maximum protection, the STR-7065 must be repacked in these materials precisely as before. The proper repacking procedures are shown in Fig. 4-1.



Note:

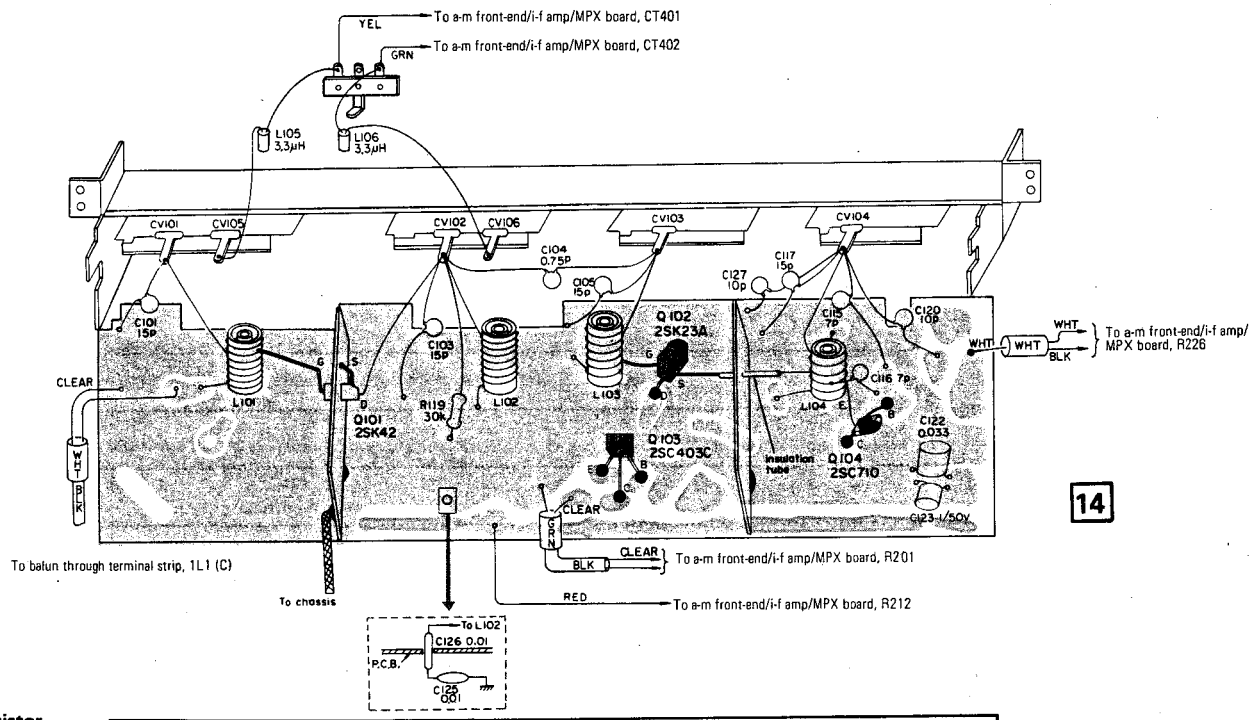
USA Model . . . . . Serial No. 807,001 and later
Canada Model . . . . . Serial No. 700,001 and later
GEP Model . . . . . Serial No. 400,001 and later

Fig. 4-1. Repacking

MEMO

SECTION 5
DIAGRAMS

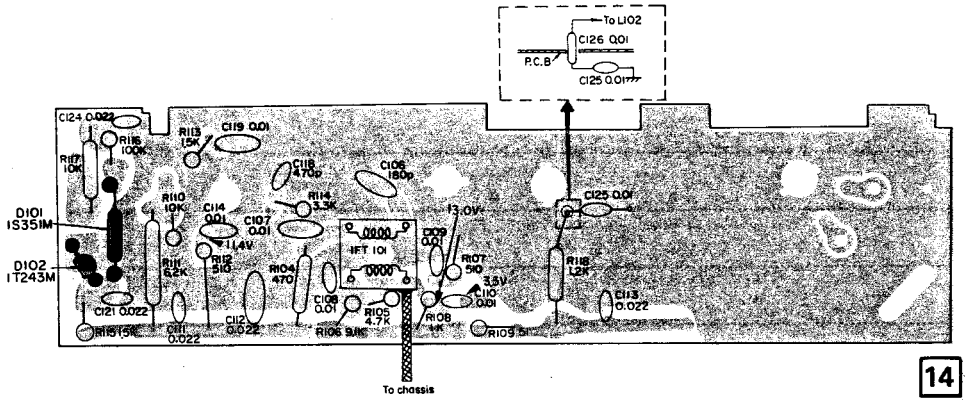
5-1. MOUNTING DIAGRAM – Fm Front-End –
– Conductor Side – (FAF-022BWG)

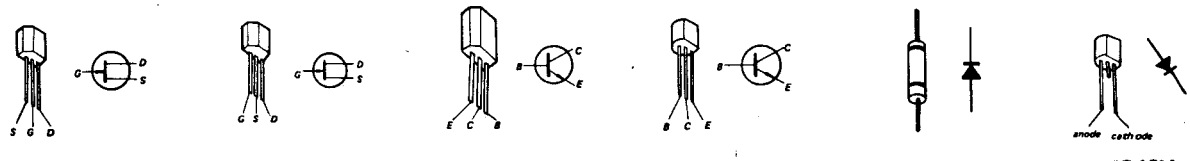


Transistor and Adjustment Parts Location

Q101 Q103 Q102 L104 Q104

– Component Side –

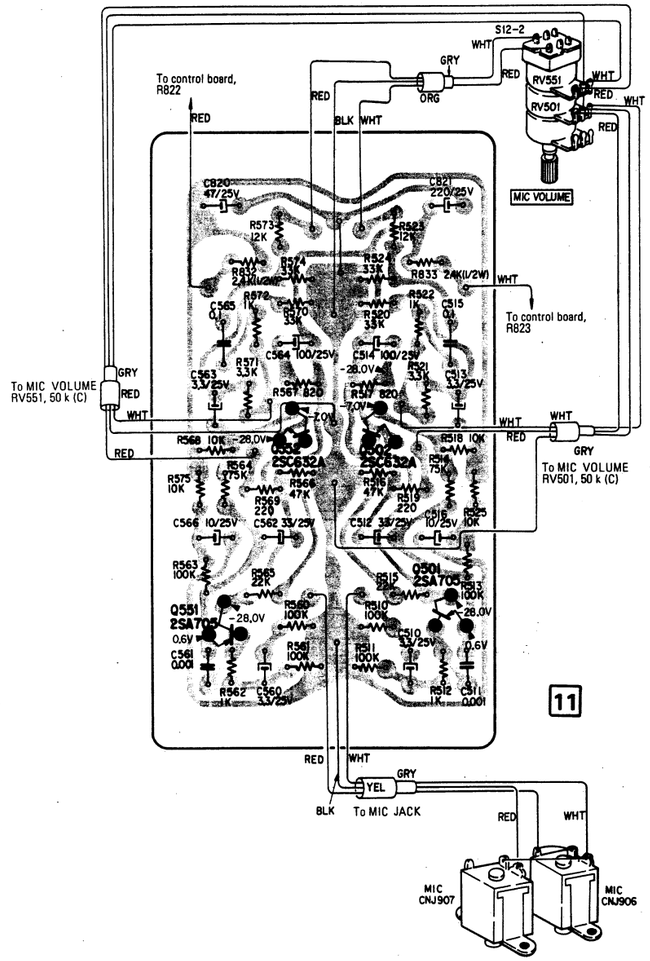




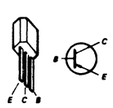
2SK23A 2SK42 2SC403C 2SC710 1S351M 1T243M

5-2. MOUNTING DIAGRAM – MIC Amp Board –

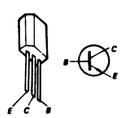
– Conductor Side –



Transistor Location	Q551	Q552	Q502	Q501



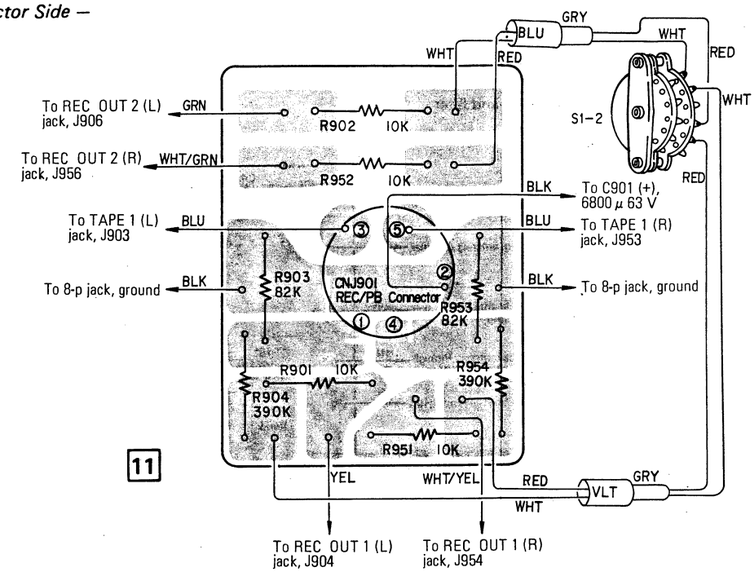
2SA705



2SA632A

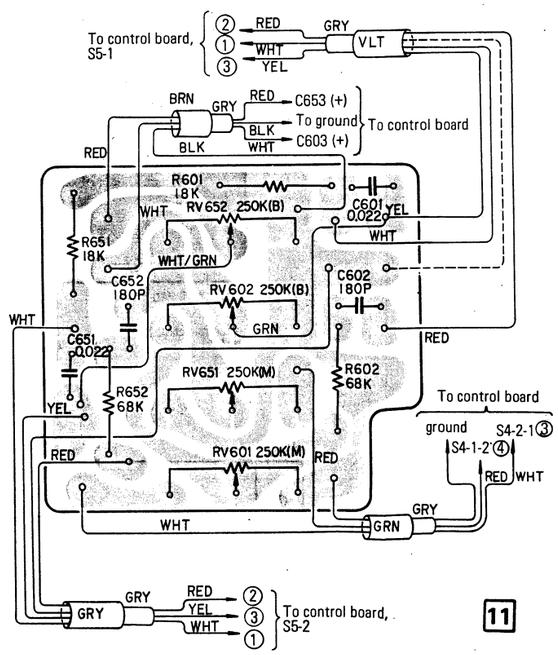
5-3. MOUNTING DIAGRAM –REC/PB Connector Board –

– Conductor Side –



5-4. MOUNTING DIAGRAM – Loudness Control Board –

– Conductor Side –

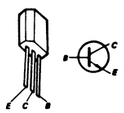


5-5. MOUNTING DIAGRAM — A-m Front-End/I-f Amplifier/MPX Board —

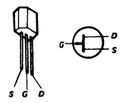
— Conductor Side —

USA Model . . . . . Serial No. 807,001 and later
Canada Model. . . . . Serial No. 700,001 and later
GEP Model . . . . . Serial No. 400,001 and later

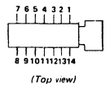
2SC403C
2SC631A
2SC633A



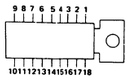
2SK23A



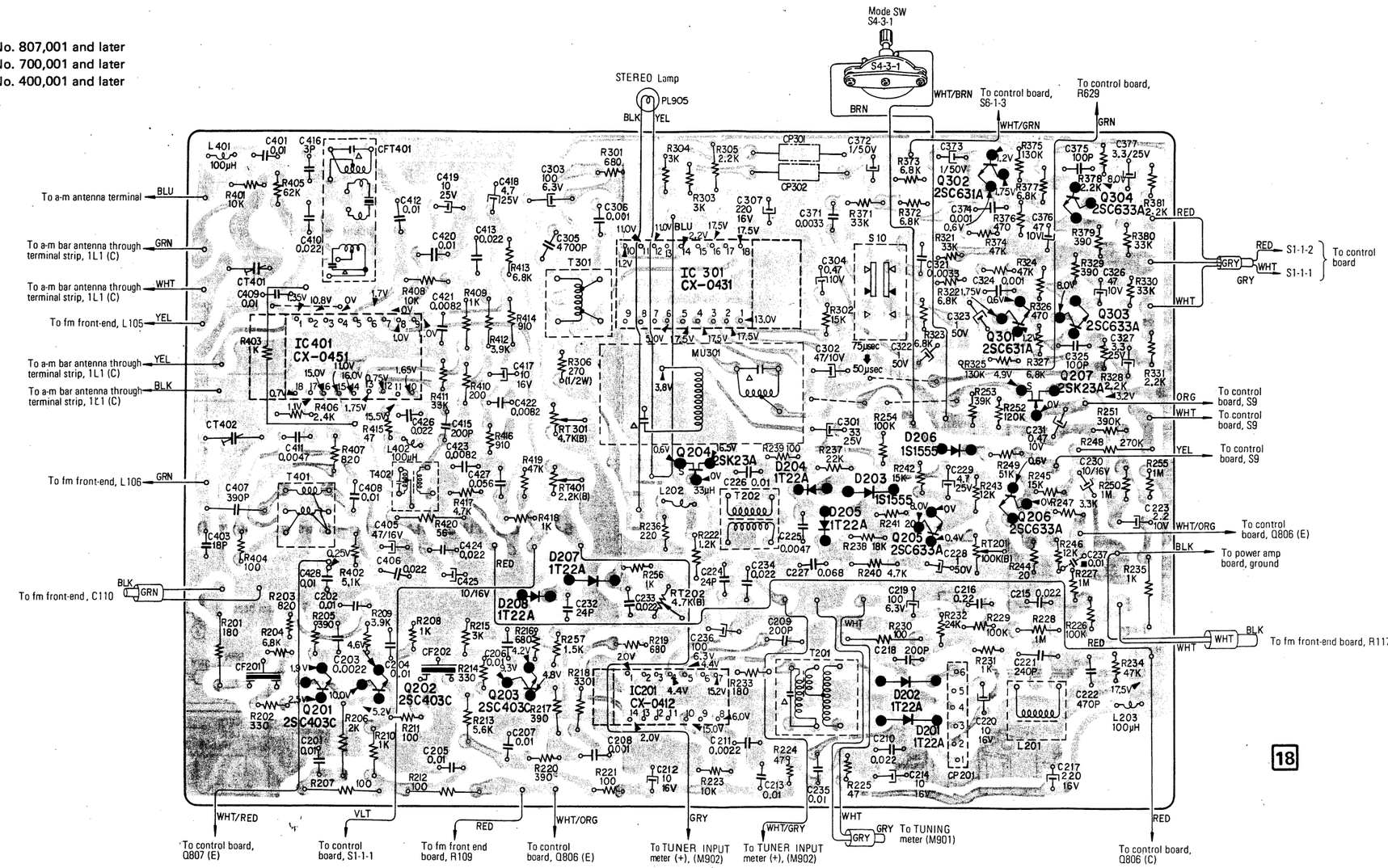
CX-0412



CX-0431
CX-0451



1T22A
1S1555



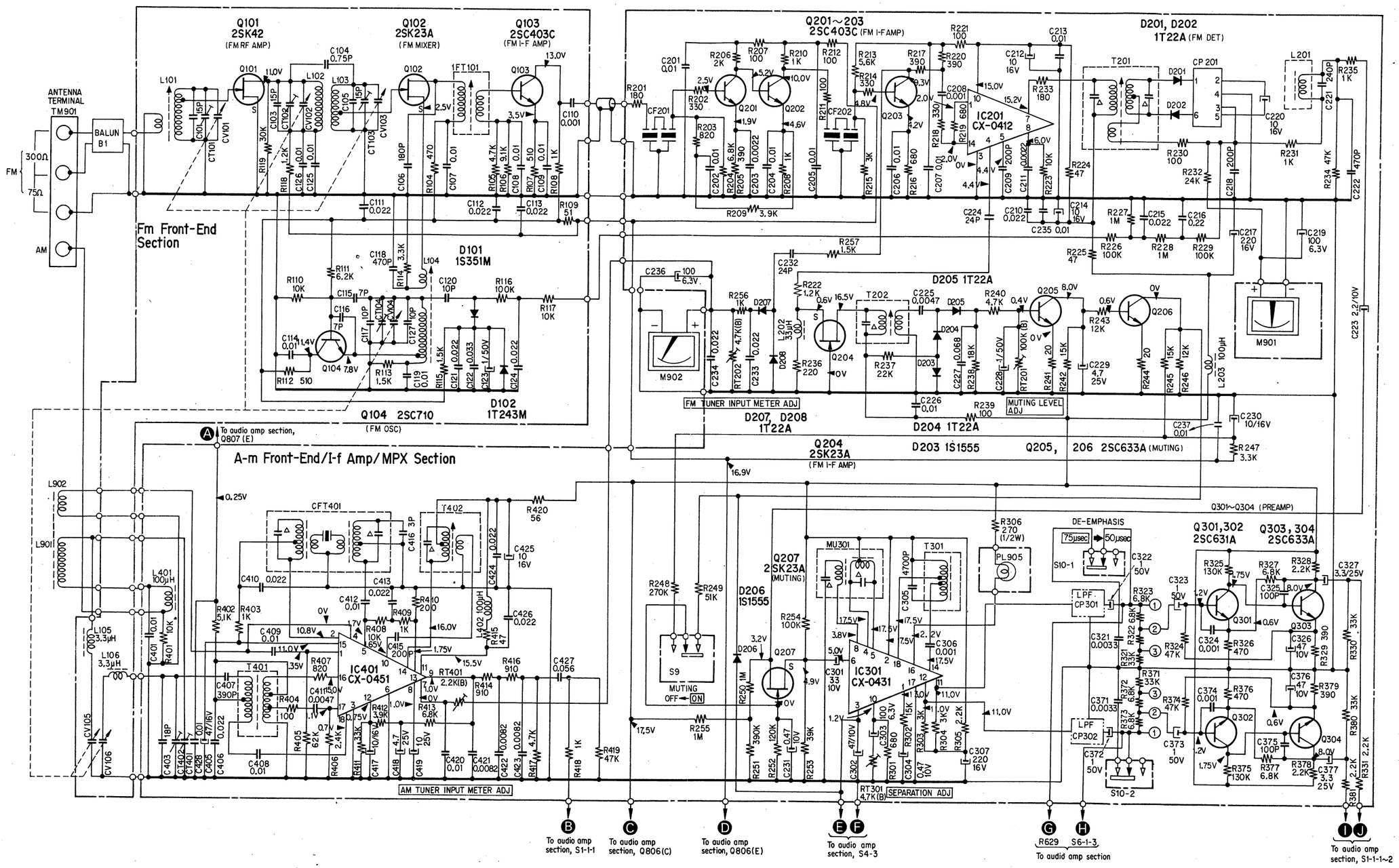
■ C237 is mounted on the conductor side

Parts Location

Q	Q201 Q202 Q203 Q204 Q205 Q302 Q301 Q207 Q206 Q304 Q303
ADJ	CT401 CT402 T401 T301 RT301 RT401 RT202 T202 T201 RT201

5-6. SCHEMATIC DIAGRAM — Tuner Section —

USA Model . . . . . Serial No. 807,001 and later
Canada Model . . . . . Serial No. 700,001 and later
GEP Model . . . . . Serial No. 400,001 and later



Ref. No.	Description	Position
S9	MUTING switch	ON
S10	DE-EMPHASIS switch (50 μsec–75 μsec)	75 μsec

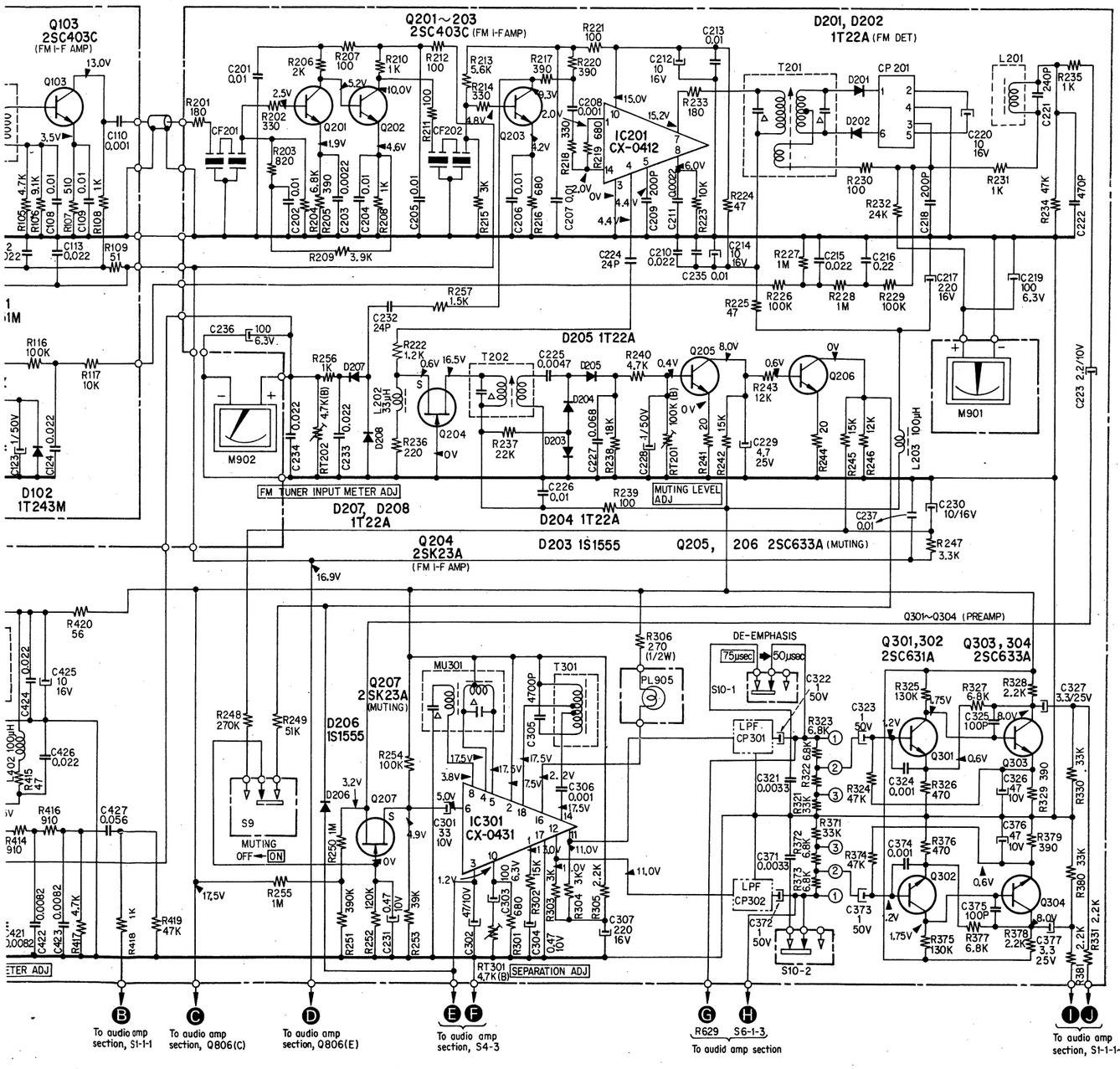
Note:

All resistance values are in ohms. k = 1000, M = 1000 k

All capacitance values are in μF except as indicated with p, which means μμF.

Voltage variations may be noted because of normal production tolerances.

All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.



Position

ON

switch 75 μsec

c)

Note:

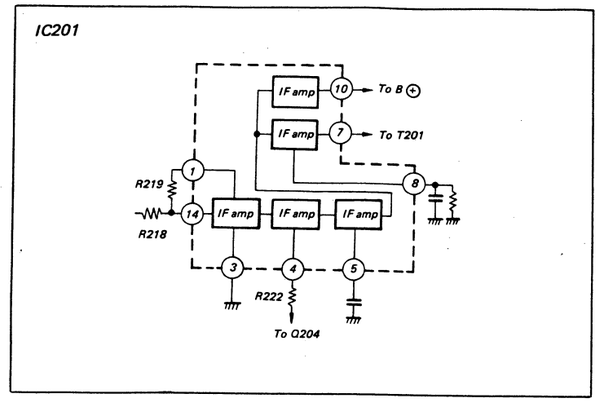
All resistance values are in ohms. k = 1000, M = 1000 k

All capacitance values are in μF except as indicated with p, which means μμF.

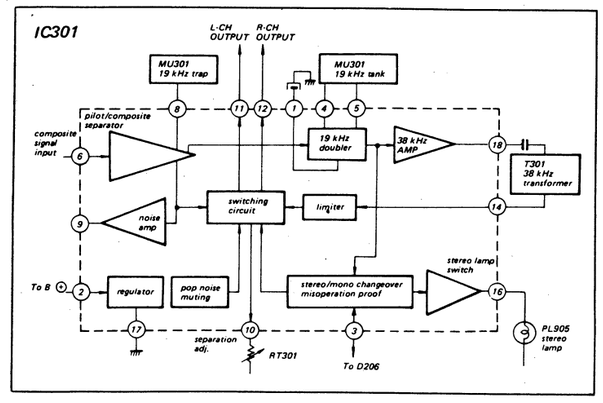
Voltage variations may be noted because of normal production tolerances.

All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.

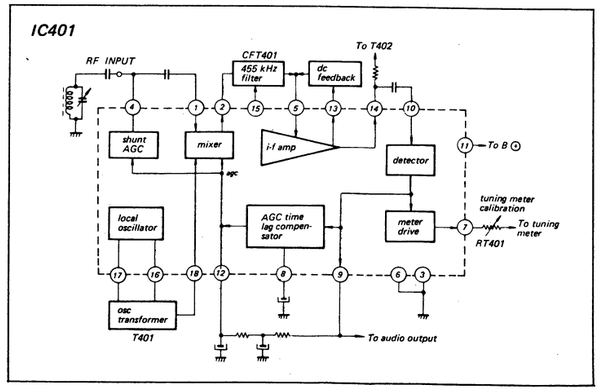
IC BLOCK DIAGRAMS



Detailed IC (CX-0412) diagram

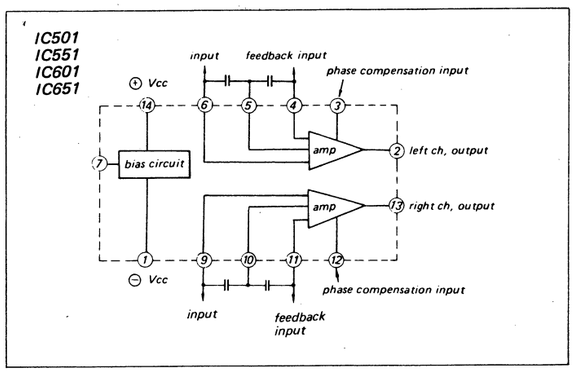


Detailed IC (CX-0431) diagram



Detailed IC (CX-0451) diagram

IC BLOCK DIAGRAM

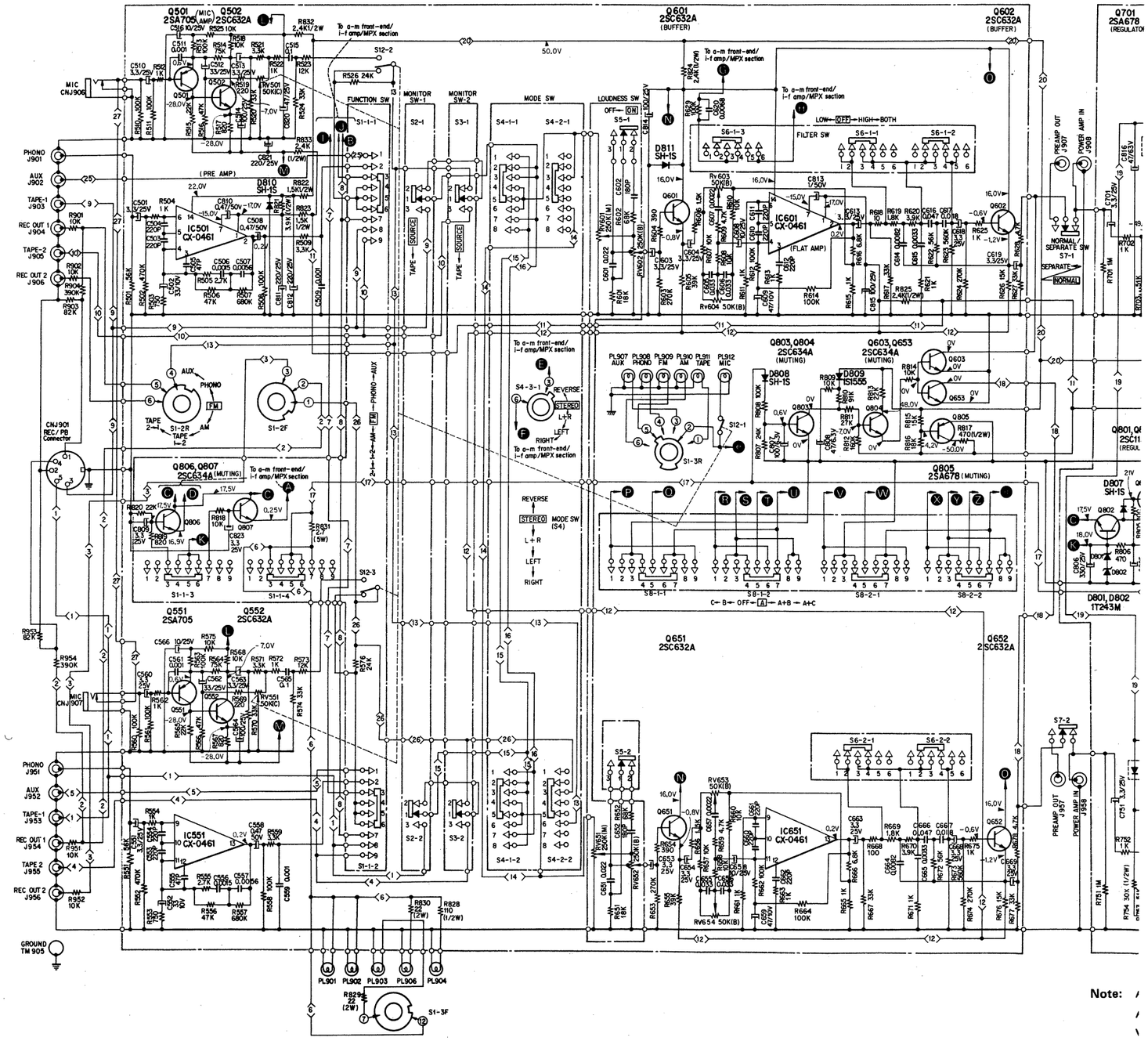


Detailed IC (CX-0461) diagram

Ref. No.	Description	Position
S1-1 ~ 4	FUNCTION switch [AUX – PHONO – FM – AM – (TAPE PRINT 1 - 2) – (TAPE PRINT 2 - 1)]	FM
S2-1 ~ 2	MONITOR-1 switch (SOURCE – TAPE)	SOURCE
S3-1 ~ 2	MONITOR-2 switch (SOURCE – TAPE)	SOURCE
S4	MODE switch [REVERSE – STEREO – (L + R) – LEFT – RIGHT]	STEREO
S5	LOUDNESS switch	ON
S6	FILTER switch (LOW – OFF – HIGH – BOTH)	OFF
S7	NORMAL/SEPARATE switch	NORMAL
S8	SPEAKER switch [C – B – OFF – A – (A + B) – (A + C)]	A
S11	POWER switch	OFF
S12	MIC MIXING switch	OFF

5-7. SCHEMATIC DIAGRAM – Audio Amplifier Section –

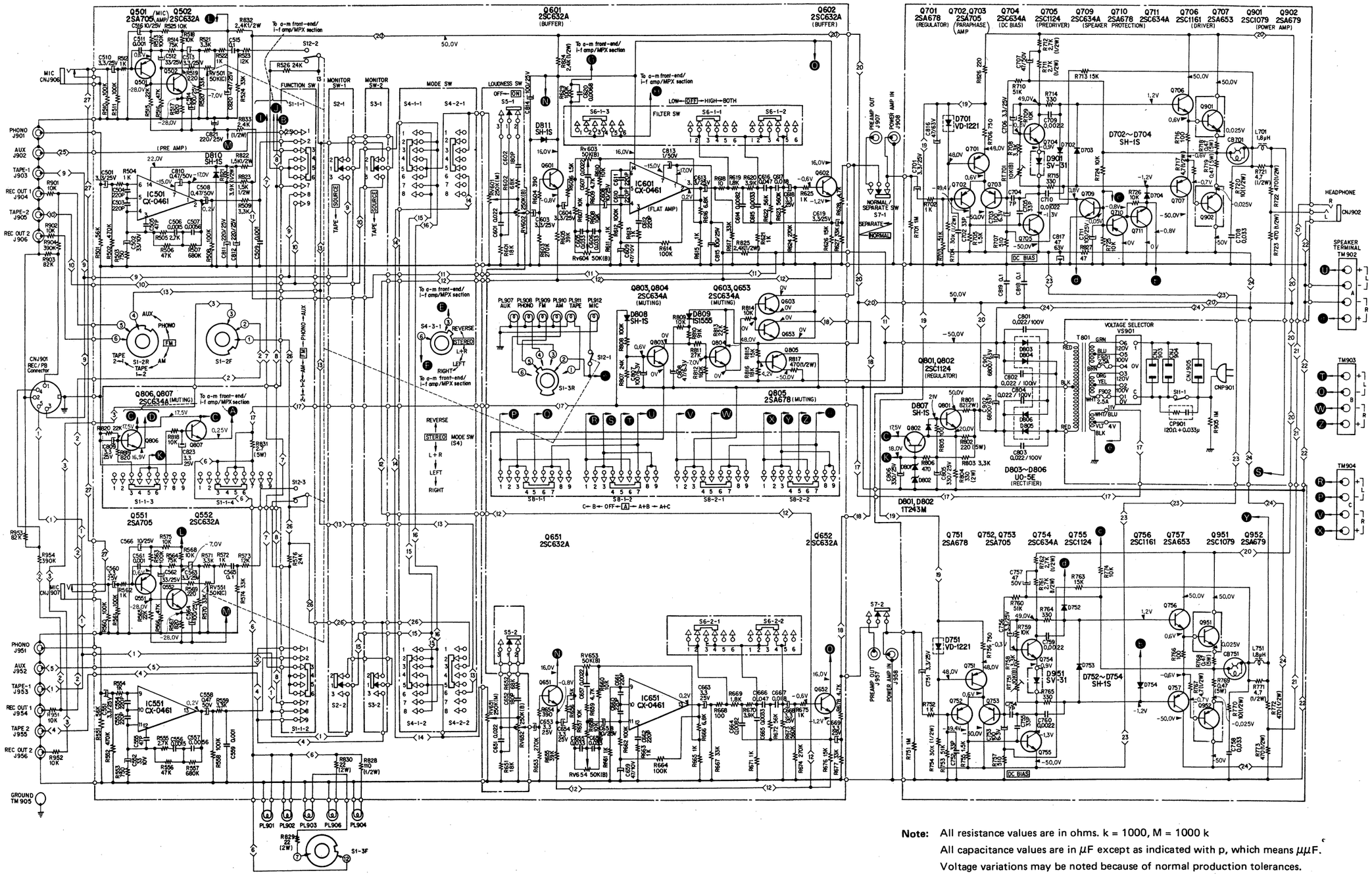
USA Model only . . . . Serial No. up to 808,100



Note:

5-7. SCHEMATIC DIAGRAM – Audio Amplifier Section –

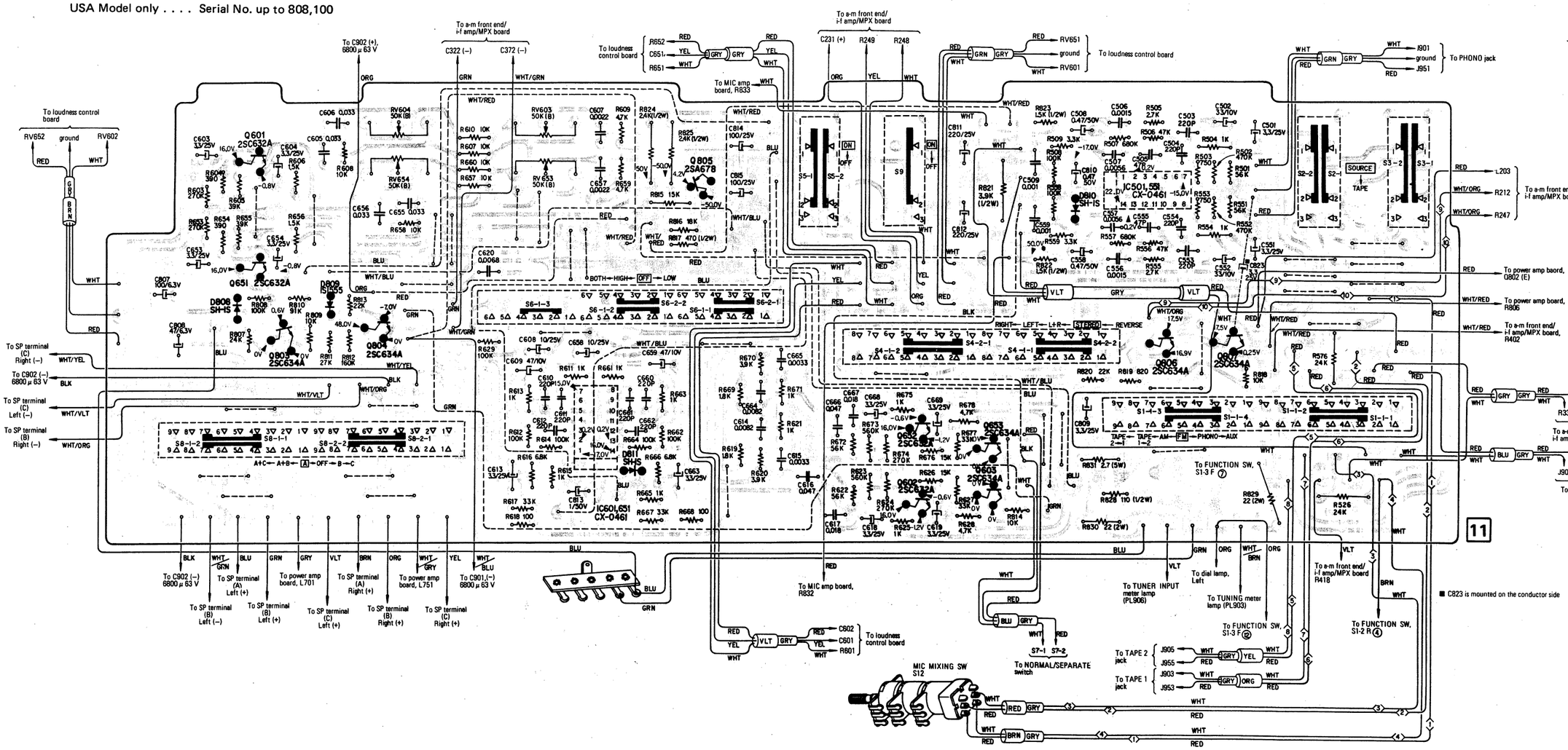
USA Model only . . . . Serial No. up to 808,100



Note: All resistance values are in ohms. k = 1000, M = 1000 k
All capacitance values are in μF except as indicated with p, which means $\mu\mu$F.
Voltage variations may be noted because of normal production tolerances.
All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.

5-8. MOUNTING DIAGRAM — Control Board —
— Conductor Side — (CCB-115)

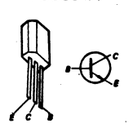
USA Model only . . . . Serial No. up to 808,100


To loudness control board
To C902 (+), 6800 μ 63 V
To a-m front end/ i-f amp/MPX board
To loudness control board
To MIC amp board, R833
To loudness control board
To PHONO jack
To a-m front end/ i-f amp/MPX board
To power amp baord, Q802 (E)
To power amp board, R806
To a-m front end/ i-f amp/MPX board, R402
To a-m front end/ i-f amp/MPX board
To AUX jack
To SP terminal (C) Right (–)
To C902 (–), 6800 μ 63 V
To SP terminal (C) Left (–)
To SP terminal (B) Right (–)
To C902 (–) 6800 μ 63 V
To SP terminal (B) Left (–)
To SP terminal (A) Left (+)
To SP terminal (B) Left (+)
To power amp board, L701
To SP terminal (C) Left (+)
To SP terminal (A) Right (+)
To SP terminal (B) Right (+)
To power amp board, L751
To SP terminal (C) Right (+)
To C901 (–) 6800 μ 63 V
To MIC amp board, R832
To loudness control board
To TUNER INPUT meter lamp (PL906)
To dial lamp, Left
To TUNING meter lamp (PL903)
To FUNCTION SW, S1-3 F
To FUNCTION SW, S1-2 R
To a-m front end/ i-f amp/MPX board R418
To FUNCTION SW, S1-3 F
MIC MIXING SW S12
To NORMAL/SEPARATE switch
To TAPE 2 jack
To TAPE 1 jack
Q601 2SC632A
Q651 2SC632A
Q803 2SC634A
Q804 2SC634A
Q805 2SA678
Q806 2SC634A
Q807 2SC634A
Q652 2SC632A
Q653 2SC634A
Q602 2SC634A
Q603 2SC634A
IC501,551 CX-0461
IC601,651 CX-0461
D808 SH-1S
D809 1S1555
D810 SH-1S
D811 SH-1S
S1 S2 S3 S4 S5 S6 S7 S9 S12
SOURCE
TAPE
BOTH HIGH OFF LOW
RIGHT LEFT L+R STEREO REVERSE
TAPE TAPE AM FM PHONO AUX
11

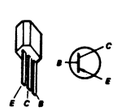
■ C823 is mounted on the conductor side

Transistor Location								
Q601	Q804	Q805	Q652	Q653	Q806	Q807		
Q651			Q602	Q603				
Q803								

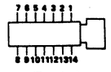
2SC632A
2SC634A



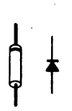
2SA678



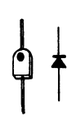
CX-0461



1S1555



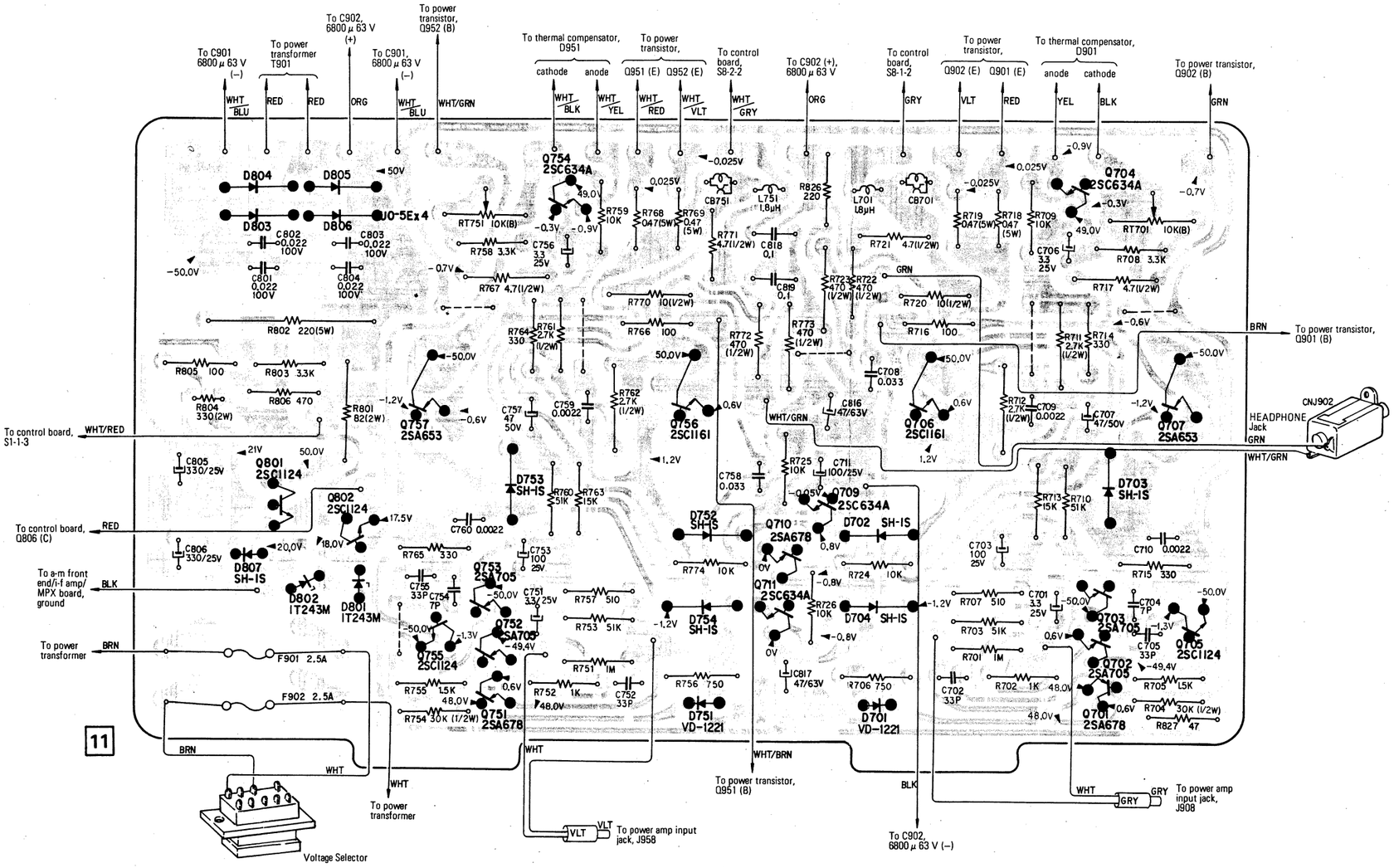
SH-1S



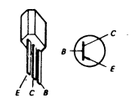
5-9. MOUNTING DIAGRAM — Power Amplifier/Power Supply Board —

— Conductor Side —

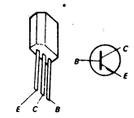
USA Model only . . . . Serial No. up to 808,100



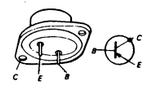
2SA678
2SA705



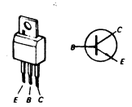
2SC634A



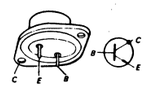
2SA653
2SA679



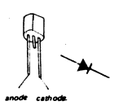
2SC1124



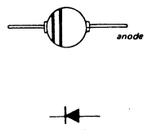
2SC1079
2SC1161



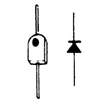
1T243M



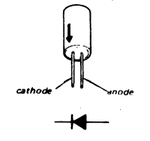
UO-5E



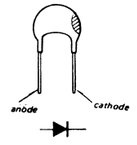
SH-1S



SV-31



VD-1221



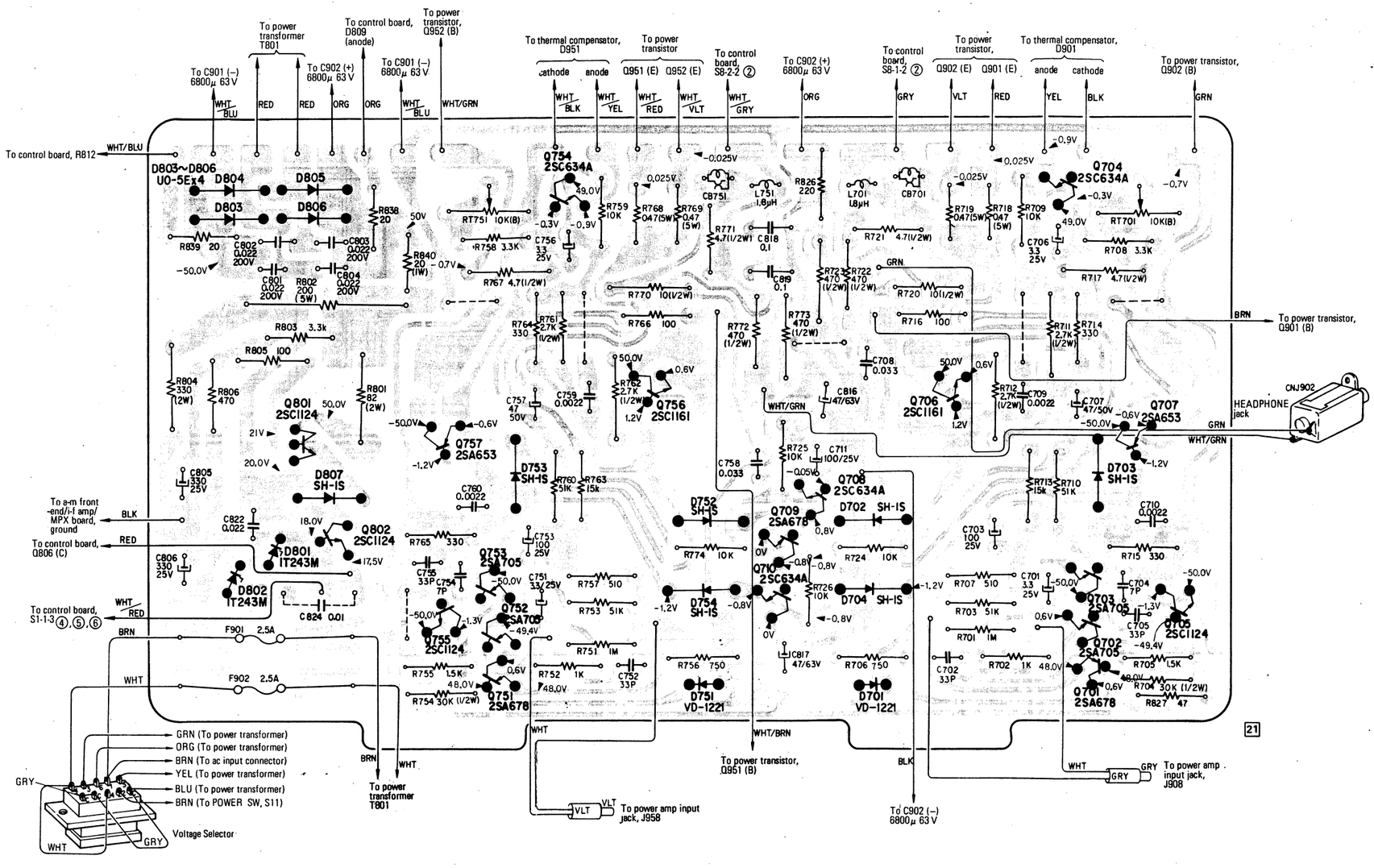
Parts Location

| | | |

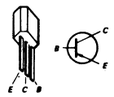
5-10. MOUNTING DIAGRAM — Power Amplifier/Power Supply Board —

— Conductor Side —

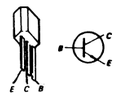
USA Model . . . . . 808,101 and later
Canada Model . . . . . 700,001 and later
GEP Model . . . . . 400,001 and later



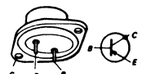
2SA678
2SA705



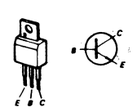
2SC634A



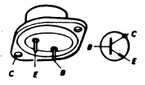
2SA653
2SA747



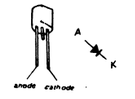
2SC1124



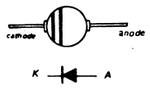
2SC1116
2SC1161



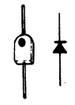
1T243M



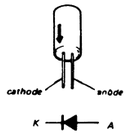
UO-5E



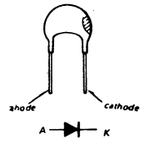
SH-1S



SV-31



VD-1221



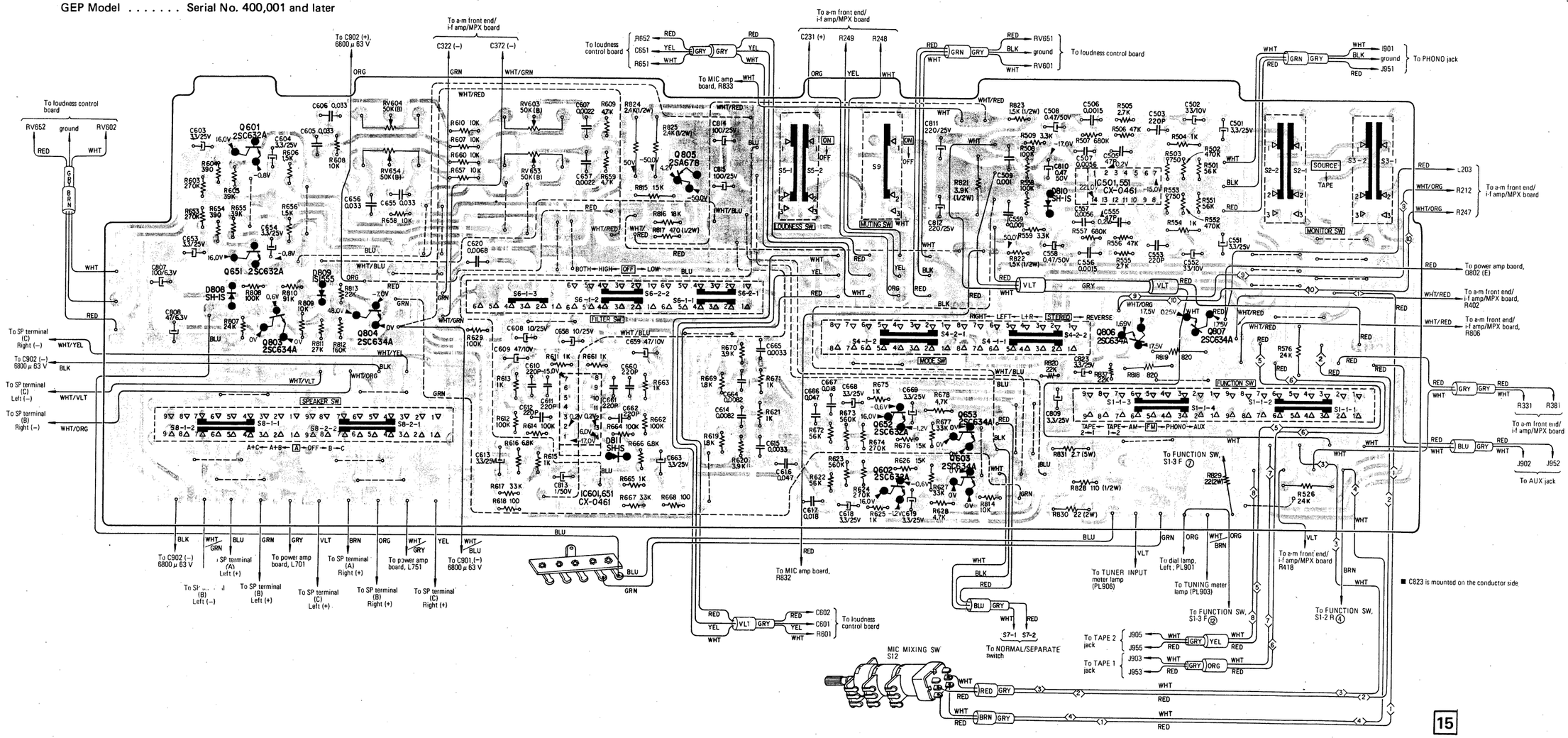
Parts Location

| | | |

5-11. MOUNTING DIAGRAM – Control Board –

– Conductor Side – **(CCB-115)**

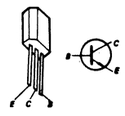
USA Model . . . . . Serial No. 808,101 and later
Canada Model. . . . . Serial No. 700,001 and later
GEP Model . . . . . Serial No. 400,001 and later



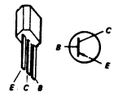
■ C823 is mounted on the conductor side

Transistor Location								
Q601 Q651 Q803	Q804	Q805		Q652 Q602	Q653 Q603	Q806	Q807	

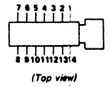
2SC632A
2SC634A



2SA678

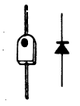


CX-0461



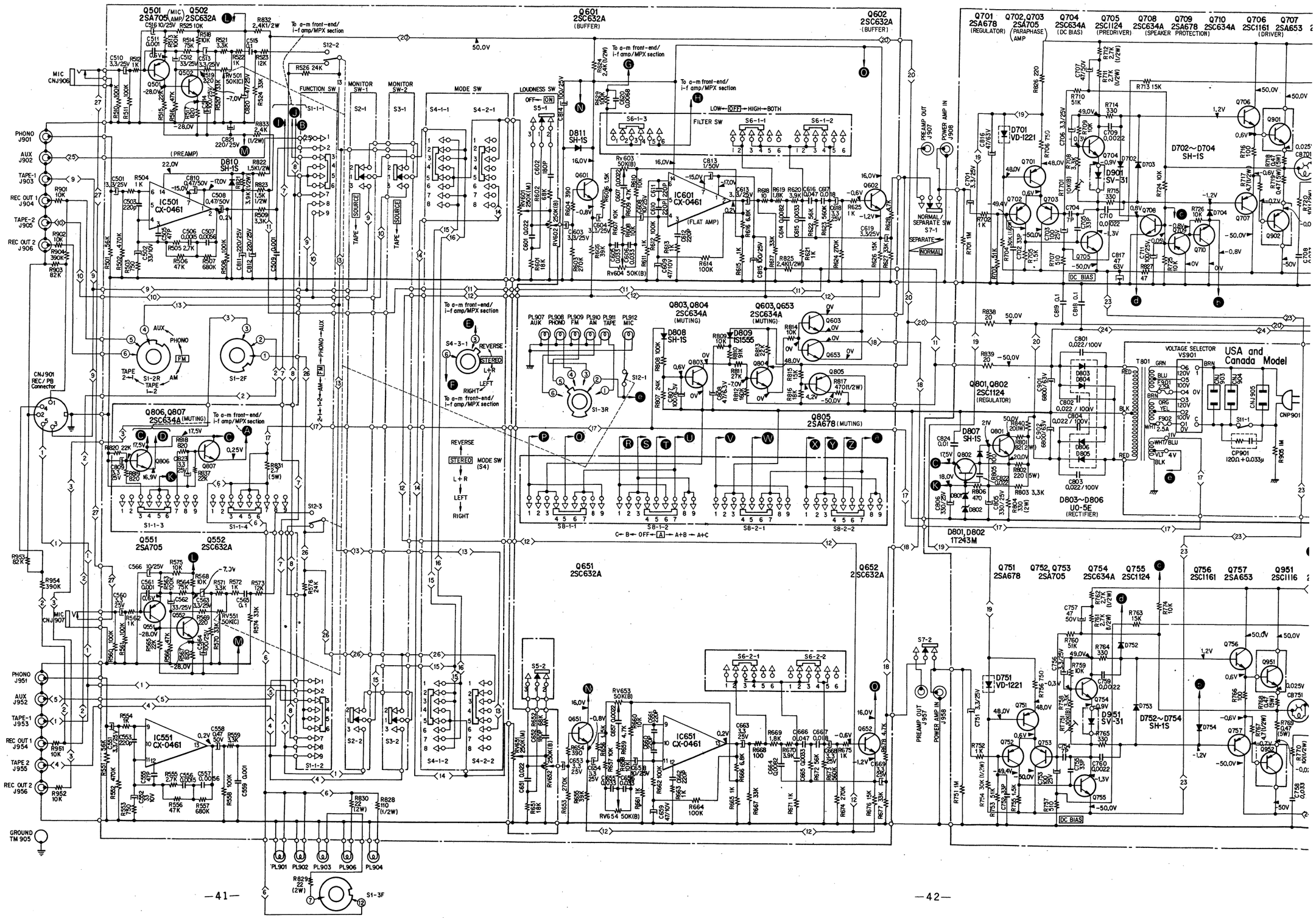
1S1555

SH-1S

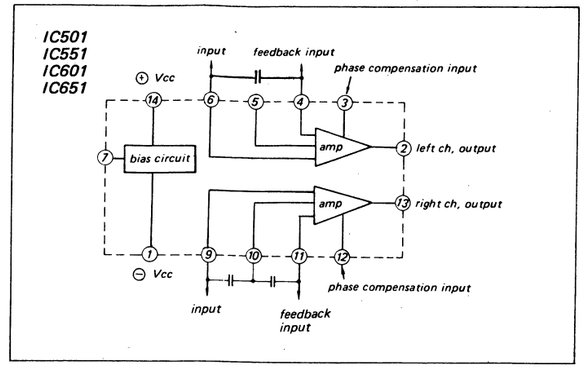


5-12. SCHEMATIC DIAGRAM – Audio Amplifier Section –

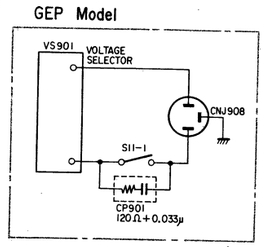
USA Model . . . . . Serial No. 808,101 and later
Canada Model . . . . . Serial No. 700,001 and later
GEP Model . . . . . Serial No. 400,001 and later



IC BLOCK DIAGRAM



Detailed IC (CX-0461) diagram



Ref. No.	Description	Position
S1-1 ~ 4	FUNCTION switch [AUX – PHONO – FM – AM – (TAPE PRINT 1 → 2) – (TAPE PRINT 2 → 1)]	FM
S2-1 ~ 2	MONITOR-1 switch (SOURCE – TAPE)	SOURCE
S3-1 ~ 2	MONITOR-2 switch (SOURCE – TAPE)	SOURCE
S4	MODE switch [REVERSE – STEREO – (L + R) – LEFT – RIGHT]	STEREO
S5	LOUDNESS switch	ON
S6	FILTER switch (LOW – OFF – HIGH – BOTH)	OFF
S7	NORMAL/SEPARATE switch	NORMAL
S8	SPEAKER switch [C – B – OFF – A – (A + B) – (A + C)]	A
S11	POWER switch	OFF
S12	MIC MIXING switch	OFF

Note:

All resistance values are in ohms. k = 1000, M = 1000 k

All capacitance values are in μF except as indicated with p, which means μμF.

Voltage variations may be noted because of normal production tolerances.

All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.

SECTION 6
EXPLODED VIEWS

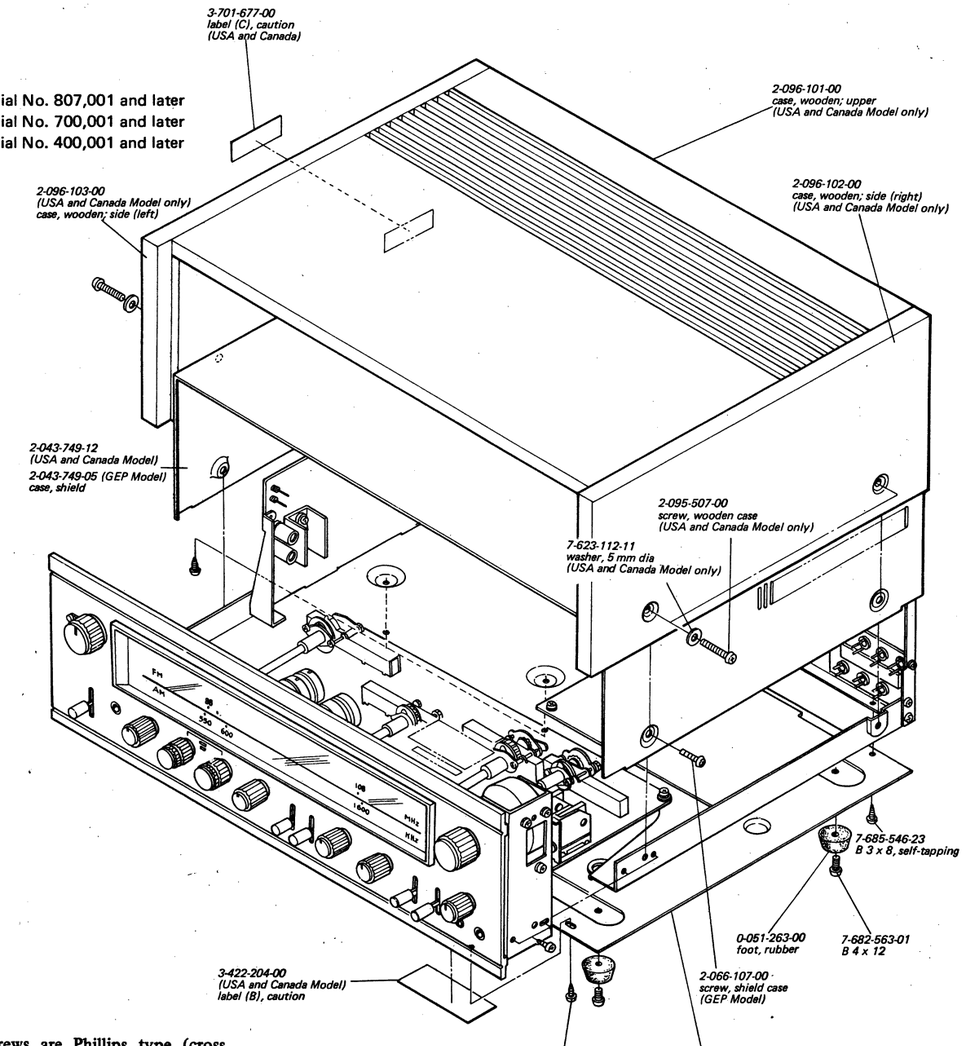
(1)

Hardware Nomenclature

P – Pan Head Screw	W – Washer
PS – Pan Head Screw with Spring Washer	SW – Spring Washer
K – Flat Countersunk Head Screw	LW – Lock Washer
B – Binding Head Screw	N – Nut
SC – Set Screw	– Example – Type of Slot, ⊕ P 3x10, Length in mm (L), Diameter in mm (D), Type of Head
E – Retaining Ring (E Washer)	

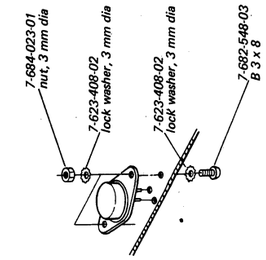
Note:

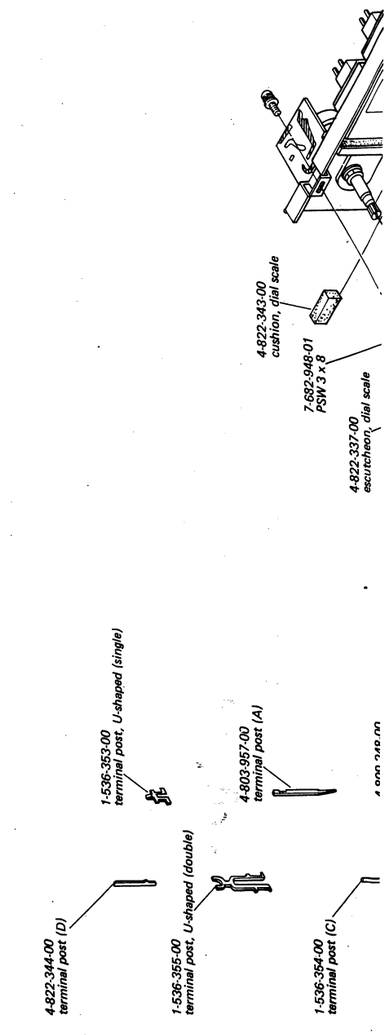
USA Model . . . . . Serial No. 807,001 and later
Canada Model. . . . . Serial No. 700,001 and later
GEP Model . . . . . Serial No. 400,001 and later



Note: All screws are Phillips type (cross recess type) unless otherwise indicated.
(–): slotted head

(2)





SECTION 6
EXPLODED VIEWS

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P – Pan Head Screw	W – Washer
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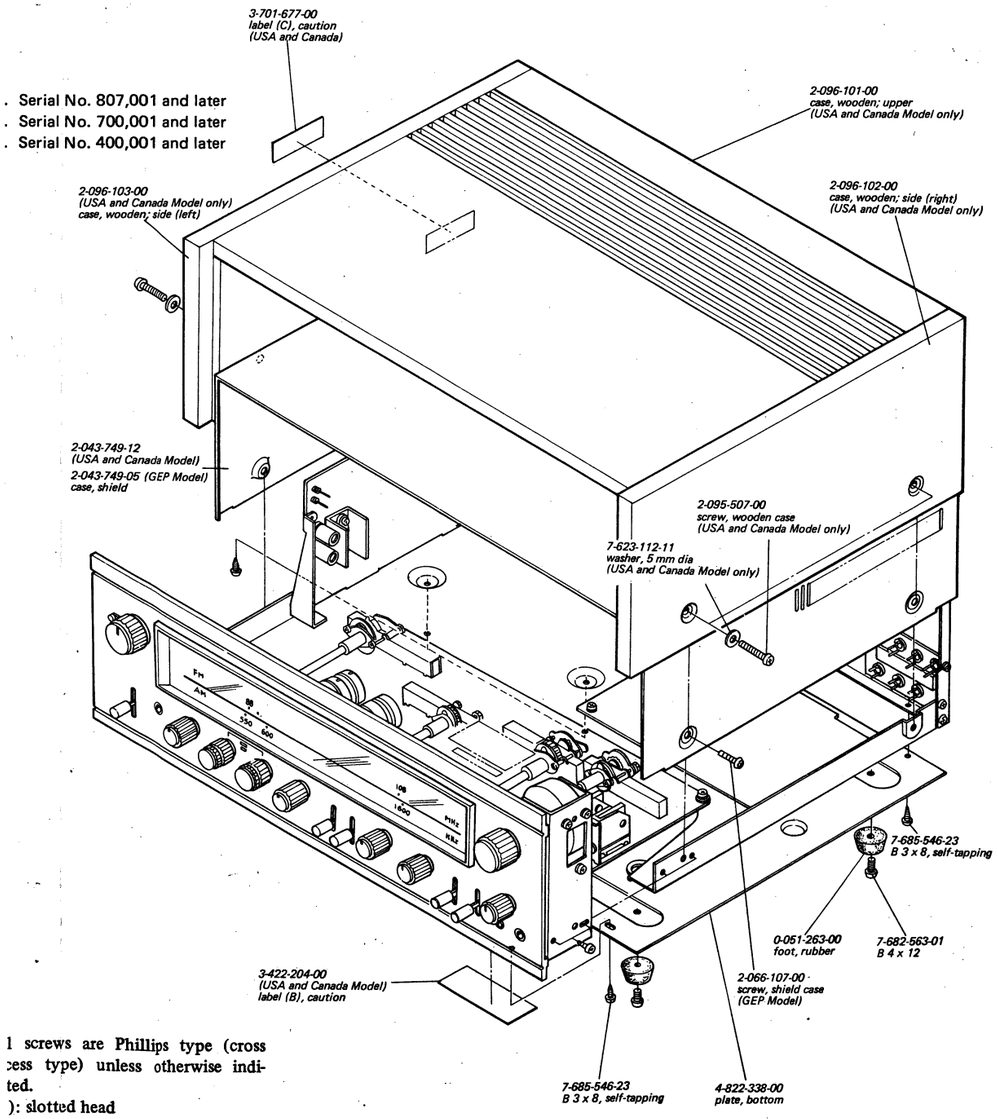
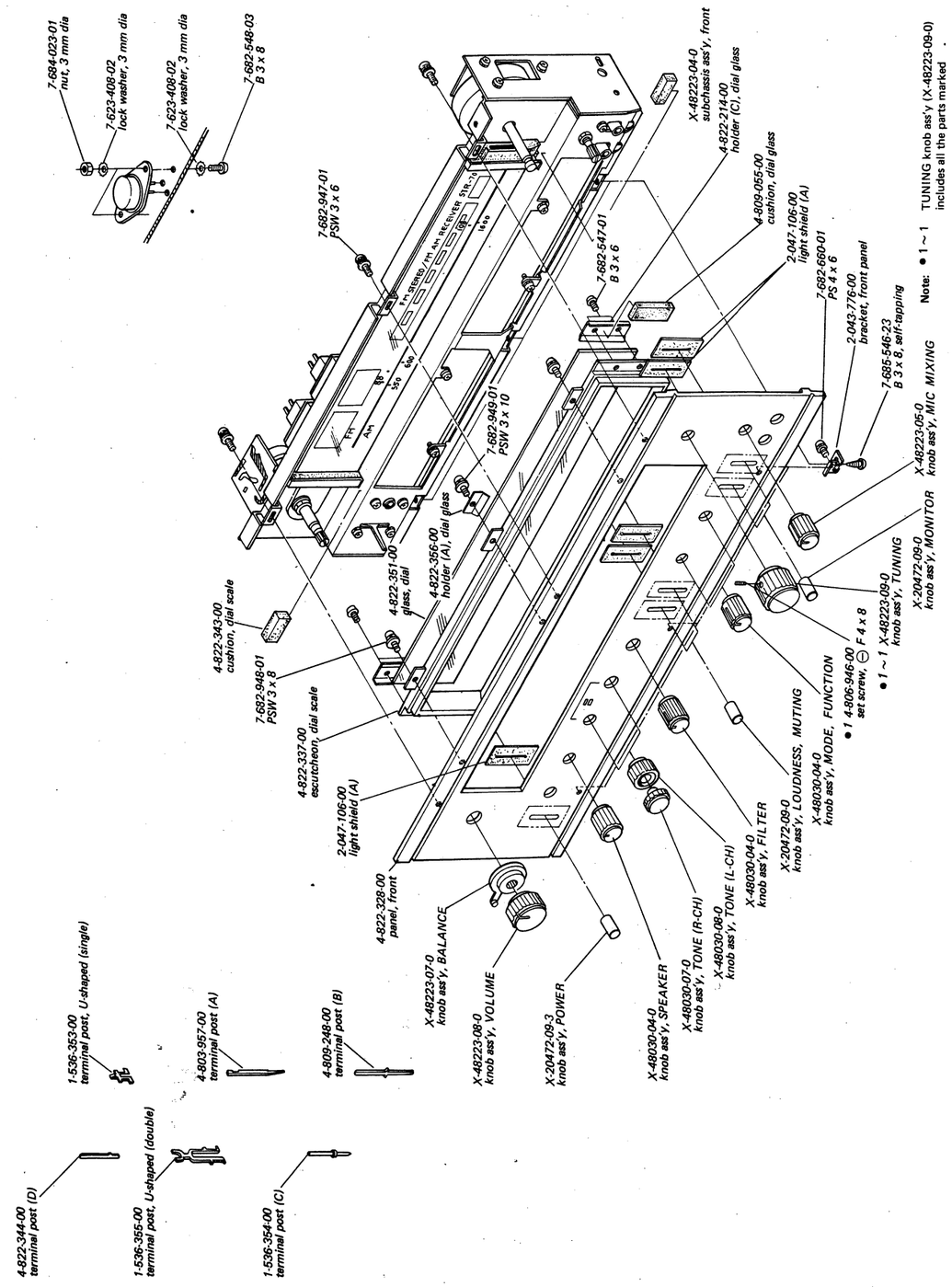
E – Retaining Ring (E Washer)	

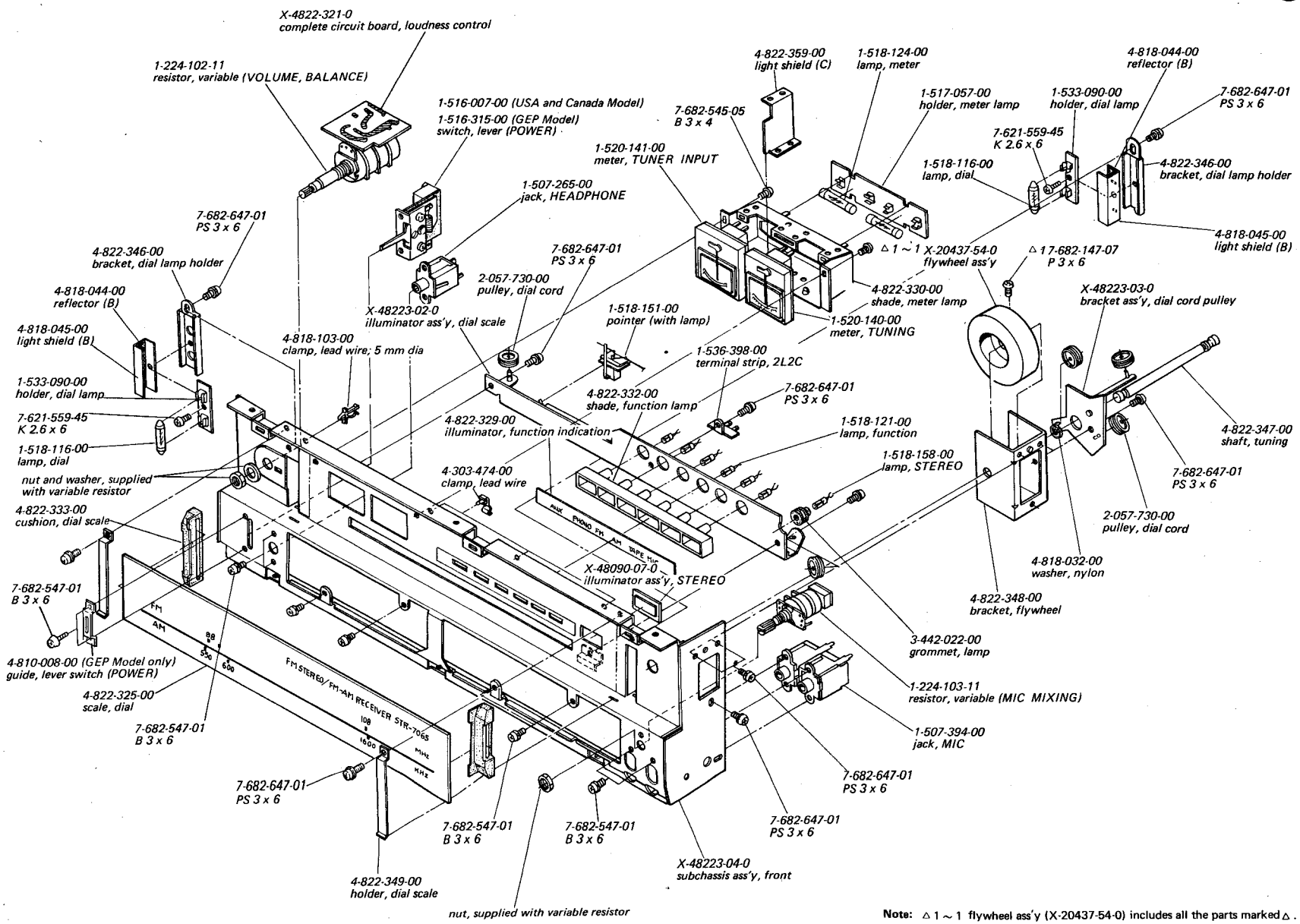
– Example –
⊕ P 3×10
Type of Slot
Length in mm (L)
Diameter in mm (D)
Type of Head



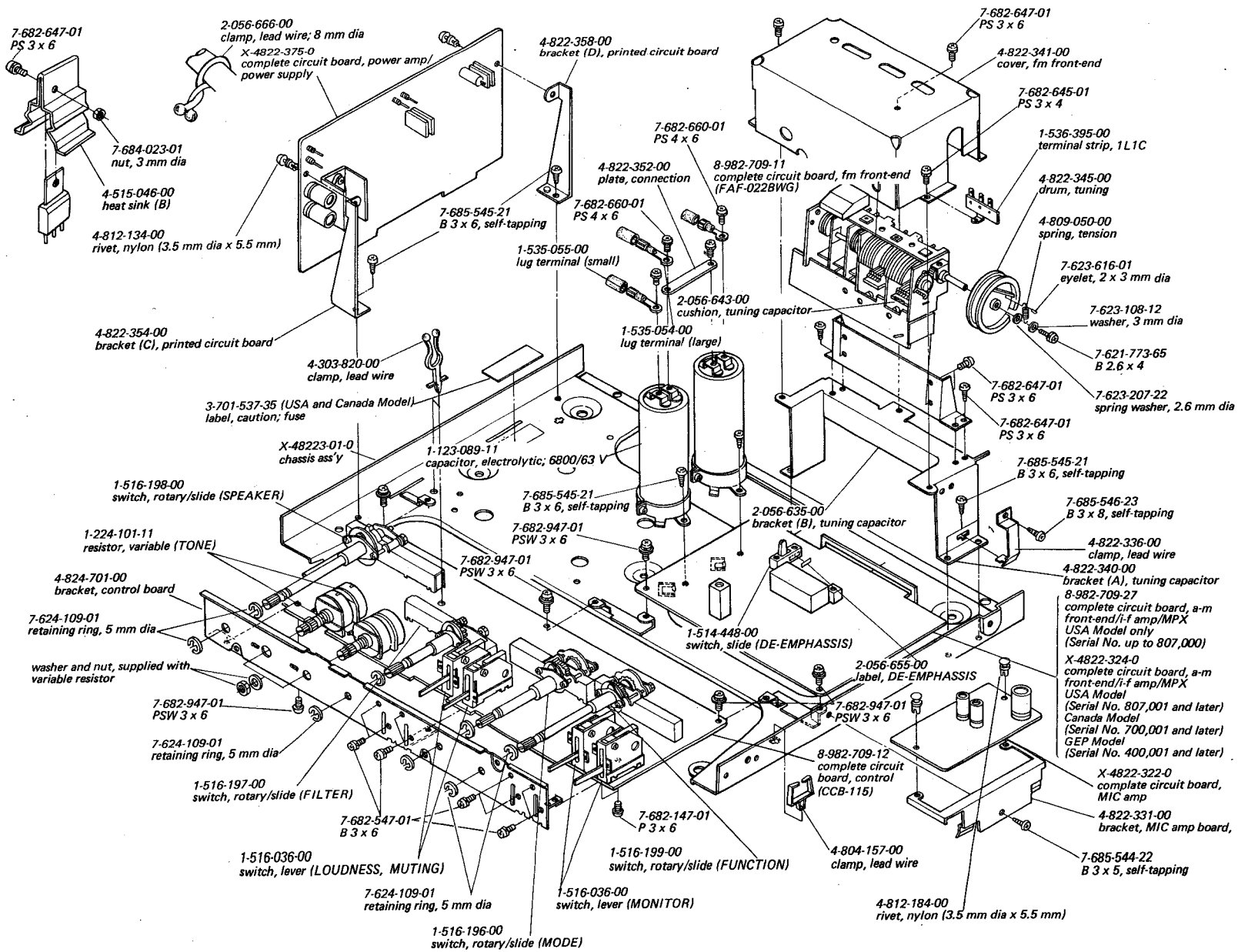
l screws are Phillips type (cross
ess type) unless otherwise indi-
ted.
): slotted head

(2)

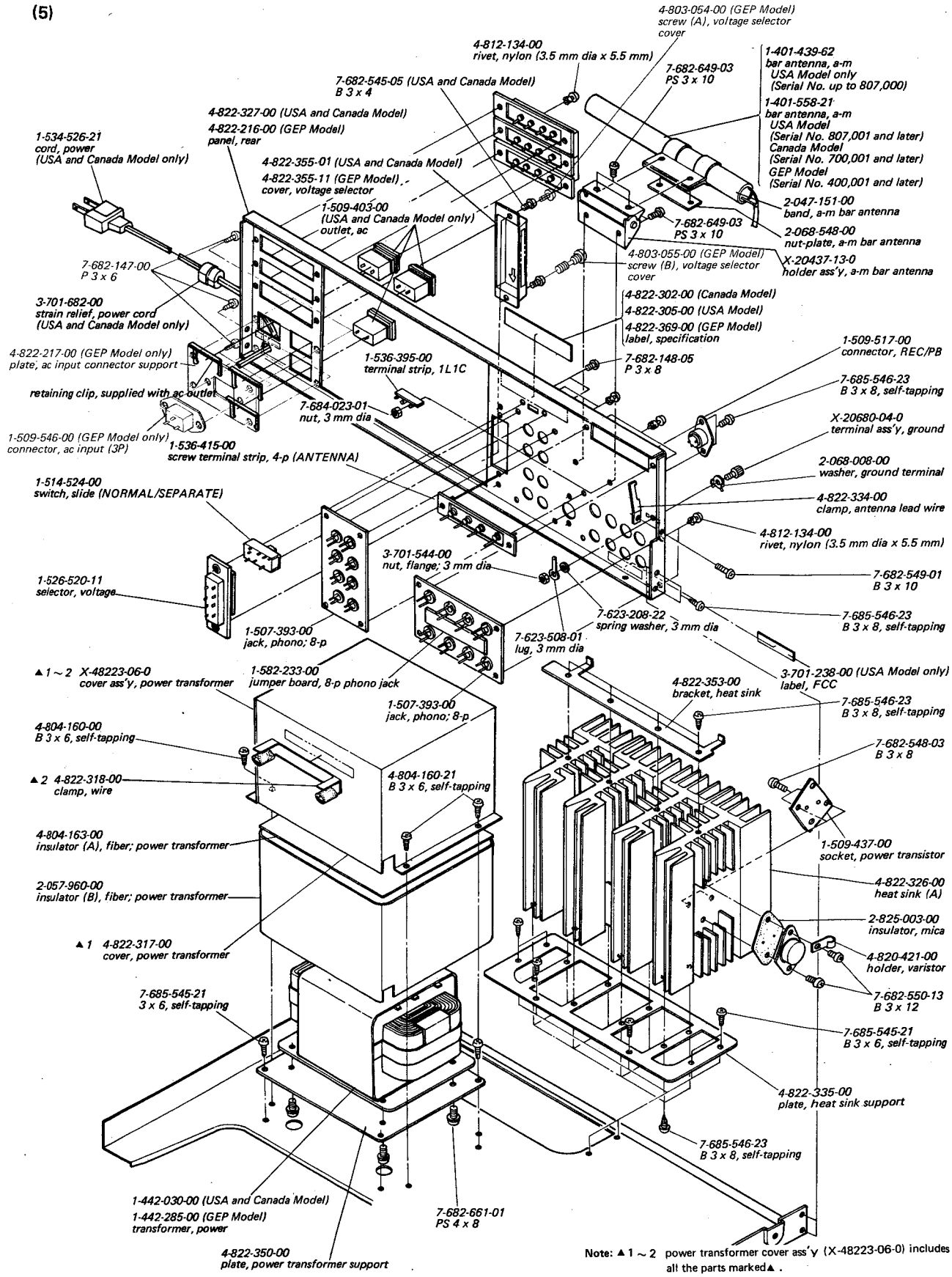




Note: △ 1 ~ 1 flywheel ass'y (X-20437-54-0) includes all the parts marked △.


7-682-647-01
PS 3 x 6
2-056-666-00
clamp, lead wire; 8 mm dia
X-4822-375-0
complete circuit board, power amp/
power supply
4-822-358-00
bracket (D), printed circuit board
7-682-647-01
PS 3 x 6
4-822-341-00
cover, fm front-end
7-682-645-01
PS 3 x 4
7-684-023-01
nut, 3 mm dia
4-515-046-00
heat sink (B)
4-812-134-00
rivet, nylon (3.5 mm dia x 5.5 mm)
7-685-545-21
B 3 x 6, self-tapping
7-682-660-01
PS 4 x 6
4-822-352-00
plate, connection
8-982-709-11
complete circuit board, fm front-end
(FAF-022BWG)
1-536-395-00
terminal strip, 1L1C
4-822-345-00
drum, tuning
7-682-660-01
PS 4 x 6
1-535-055-00
lug terminal (small)
4-809-050-00
spring, tension
7-623-616-01
eyelet, 2 x 3 mm dia
2-056-643-00
cushion, tuning capacitor
7-623-108-12
washer, 3 mm dia
4-822-354-00
bracket (C), printed circuit board
1-535-054-00
lug terminal (large)
7-621-773-65
B 2.6 x 4
4-303-820-00
clamp, lead wire
7-682-647-01
PS 3 x 6
7-623-207-22
spring washer, 2.6 mm dia
3-701-537-35 (USA and Canada Model)
label, caution; fuse
7-682-647-01
PS 3 x 6
X-48223-01-0
chassis ass'y
1-123-089-11
capacitor, electrolytic; 6800/63 V
7-685-545-21
B 3 x 6, self-tapping
1-516-198-00
switch, rotary/slide (SPEAKER)
7-685-545-21
B 3 x 6, self-tapping
7-685-546-23
B 3 x 8, self-tapping
2-056-635-00
bracket (B), tuning capacitor
1-224-101-11
resistor, variable (TONE)
7-682-947-01
PSW 3 x 6
4-822-336-00
clamp, lead wire
7-682-947-01
PSW 3 x 6
4-822-340-00
bracket (A), tuning capacitor
4-824-701-00
bracket, control board
8-982-709-27
complete circuit board, a-m
front-end/i-f amp/MPX
USA Model only
(Serial No. up to 807,000)
7-624-109-01
retaining ring, 5 mm dia
1-514-448-00
switch, slide (DE-EMPHASSIS)
X-4822-324-0
complete circuit board, a-m
front-end/i-f amp/MPX
USA Model
(Serial No. 807,001 and later)
Canada Model
(Serial No. 700,001 and later)
GEP Model
(Serial No. 400,001 and later)
washer and nut, supplied with
variable resistor
2-056-655-00
label, DE-EMPHASSIS
7-682-947-01
PSW 3 x 6
7-682-947-01
PSW 3 x 6
8-982-709-12
complete circuit
board, control
(CCB-115)
X-4822-322-0
complate circuit board,
MIC amp
7-624-109-01
retaining ring, 5 mm dia
4-822-331-00
bracket, MIC amp board,
1-516-197-00
switch, rotary/slide (FILTER)
7-682-547-01
B 3 x 6
7-682-147-01
P 3 x 6
4-804-157-00
clamp, lead wire
7-685-544-22
B 3 x 5, self-tapping
1-516-036-00
switch, lever (LOUDNESS, MUTING)
1-516-199-00
switch, rotary/slide (FUNCTION)
7-624-109-01
retaining ring, 5 mm dia
1-516-036-00
switch, lever (MONITOR)
4-812-184-00
rivet, nylon (3.5 mm dia x 5.5 mm)
1-516-196-00
switch, rotary/slide (MODE)

(5)



Note: ▲1 ~ 2 power transformer cover ass'y (X-48223-06-0) includes all the parts marked▲.

SECTION 7

ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description
		COMPLETE CIRCUIT BOARDS
	8-982-709-11	fm front-end (FAT-022BWG)
	8-982-709-27	a-m front-end/i-f amp/MPX USA Model only (Serial No. up to 807,000)
	X-4822-324-0	a-m front-end/i-f amp/MPX USA Model (Serial No. 807,001 and later) Canada Model (Serial No. 700,001 and later) GEP Model (Serial No. 400,001 and later)
	8-982-709-12	control (CCB-115)
	X-4822-321-0	loudness control
	X-4822-322-0	MIC amp
	X-4822-325-0	power amp/power supply
	X-4822-323-0	REC/PB connector
		SEMICONDUCTORS
Q101	FET	2SK42
Q102	FET	2SK23A
Q103	transistor	2SC403C
Q104	transistor	2SC710
Q201	transistor	2SC403C
Q202	transistor	2SC403C
Q203	transistor	2SC403C
Q204	FET	2SK23A
Q205	transistor	2SC633A
Q206	transistor	2SC633A
Q207	FET	2SK23A
Q301	transistor	2SC631A
Q302	transistor	2SC631A
Q303	transistor	2SC633A
Q304	transistor	2SC633A
Q501(Q551)	transistor	2SA705
Q502(Q552)	transistor	2SC632A
Q601(Q651)	transistor	2SC632A
Q602(Q652)	transistor	2SC632A
Q603(Q653)	transistor	2SC634A
Q701(Q751)	transistor	2SA678
Q702(Q752)	transistor	2SA705
Q703(Q753)	transistor	2SA705
Q704(Q754)	transistor	2SC634A
Q705(Q755)	transistor	2SC1124
Q706(Q756)	transistor	2SC1161
Q707(Q757)	transistor	2SA653
Q708	transistor	2SC634A
✳ Q709	transistor	2SA678
Q710	transistor	2SC634A

✳ For USA Model with Serial No. up to 808,100, Q708, Q709, and Q710 correspond to Q709, Q710, and Q711, respectively.

Ref. No.	Part No.	Description
Q801	transistor	2SC1124
Q802	transistor	2SC1124
Q803	transistor	2SC634A
Q804	transistor	2SC634A
Q805	transistor	2SA678
Q806	transistor	2SC634A
Q807	transistor	2SC634A
Q901(Q951)	transistor	2SC1079
Q902(Q952)	transistor	2SA679 (USA Model Serial No. up to 805,000)
Q901(Q951)	transistor	2SC1116
Q902(Q952)	transistor	2SA747 (USA Model 805,001 and later, Canada Model 700,001 and later, GEP Model 400,001 and later)
IC201	IC	CX-0412
IC301	IC	CX-0431
IC401	IC	CX-0451
IC501	IC	CX-0461
IC601	IC	CX-0461
D101	diode	1S351M
D102	diode	1T243M
D201	diode	1T22A
D202	diode	1T22A
D203	diode	1S1555
D204	diode	1T22A
D205	diode	1T22A
D206	diode	1S1555
D207	diode	1T22A
D208	diode	1T22A
D701(D751)	diode	VD-1221
D702(D752)	diode	SH-1S
D703(D753)	diode	SH-1S
D704(D754)	diode	SH-1S
D801	diode	1T243M
D802	diode	1T243M
D803	diode	UO-5E
D804	diode	UO-5E
D805	diode	UO-5E
D806	diode	UO-5E
D807	diode	SH-1S
D808	diode	SH-1S
D809	diode	1S1555
D810	diode	SH-1S
D811	diode	SH-1S
D901(D951)	diode	SV-31

Note: USA Model . . . . . Serial No. 807,001 and later
Canada Model . . . . . Serial No. 700,001 and later
GEP Model . . . . . Serial No. 400,001 and later

Ref. No.	Part No.	Description
		TRANSFORMERS, COILS & INDUCTORS
B1	1-417-014-21	balun
CFT401	1-403-150-00	CFT
IFT101	1-403-295-12	IFT, fm 10.7 MHz
L101	1-401-489-00	coil, fm antenna
L102	1-425-446-12	coil, fm rf 1
L103	1-425-668-00	coil, fm rf 2
L104	1-405-377-00	coil, fm osc
L105	1-407-184-00	inductor, micro 3.3 μH
L106	1-407-184-00	inductor, micro 3.3 μH
L201	1-407-418-00	coil, trap; SCA
L202	1-407-163-00	inductor, micro 33 μH
L203	1-407-169-00	inductor, micro 100 μH
L401	1-407-169-00	inductor, micro 100 μH
L402	1-407-169-00	inductor, micro 100 μH
L701(L751)	1-407-592-00	inductor, micro 1.8 μH
L901	1-401-439-62	bar antenna, a-m USA Model only (Serial No. up to 807,000)
L901(L902)	1-401-558-21	bar antenna, a-m USA Model (Serial No. 807,001 and later) Canada Model (Serial No. 700,001 and later) GEP Model (Serial No. 400,001 and later)
MU301	1-464-009-00	MPX unit
T201	1-403-291-00	transformer, discriminator 10.7 MHz
T202	1-403-299-00	transformer, muting
T301	1-425-729-00	transformer, switching 38 kHz
T401	1-405-459-00	coil, a-m osc
T402	1-403-128-00	IFT, a-m
T801	1-442-030-00	transformer, power (USA and Canada Model)
	1-442-285-00	transformer, power (GEP Model)

CAPACITORS

All capacitance values are in μF except as indicated with p, which means μμF.

C101	1-102-880-11	15 p	±0.5 pF	50 V	ceramic
C102		----------			
C103	1-102-880-11	15 p	±0.5 pF	50 V	ceramic
C104	1-102-064-11	0.75 p	±10 %	50 V	ceramic
C105	1-102-880-11	15 p	±0.5 pF	50 V	ceramic
C106	1-102-848-11	180 p	±0.5 pF	50 V	ceramic
C107	1-101-923-11	0.01	+80 −20 %	25 V	ceramic
C108	1-101-923-11	0.01	+80 −20 %	25 V	ceramic
C109	1-101-923-11	0.01	+80 −20 %	25 V	ceramic
C110	1-101-918-11	0.001	+80 −20 %	25 V	ceramic
C111	1-101-924-11	0.022	+80 −20 %	25 V	ceramic
C112	1-101-924-11	0.022	+80 −20 %	25 V	ceramic
C113	1-101-924-11	0.022	+80 −20 %	25 V	ceramic
C114	1-101-923-11	0.01	+80 −20 %	25 V	ceramic
C115	1-102-875-11	7 p	±5 %	50 V	ceramic
C116	1-102-875-11	7 p	±5 %	50 V	ceramic
C117	1-102-986-11	10 p	±0.5 pF	50 V	ceramic
C118	1-102-114-11	470 p	±10 %	50 V	ceramic
C119	1-101-118-11	0.01	±20 %	50 V	ceramic
C120	1-102-986-11	10 p	±0.5 pF	50 V	ceramic
C121	1-101-924-11	0.022	+80 −20 %	25 V	ceramic
C122	1-105-679-12	0.033	±10 %	50 V	mylar
C123	1-121-391-11	1		50 V	electrolytic
C124	1-101-924-11	0.022	+80 −20 %	25 V	ceramic
C125	1-101-118-11	0.01	±20 %	50 V	ceramic
C126	1-101-118-11	0.01	±20 %	50 V	ceramic
C127	1-102-986-11	10 p	±0.5 pF	50 V	ceramic
C128	1-101-924-11	0.022	+80 −20 %	25 V	ceramic
C201	1-101-118-11	0.01	±20 %	50 V	ceramic
C202	1-101-923-11	0.01	+80 −20 %	25 V	ceramic
C203	1-102-100-11	0.0022	±5 %	50 V	ceramic
C204	1-101-923-11	0.01	+80 −20 %	25 V	ceramic
C205	1-101-118-11	0.01	±20 %	50 V	ceramic
C206	1-101-923-11	0.01	+80 −20 %	25 V	ceramic
C207	1-101-923-11	0.01	+80 −20 %	25 V	ceramic
C208	1-101-918-11	0.001	+80 −20 %	25 V	ceramic
C209	1-102-977-11	200 p	±5 %	50 V	ceramic
C210	1-101-924-11	0.022	+80 −20 %	25 V	ceramic
C211	1-102-100-11	0.0022	±5 %	50 V	ceramic
C212	1-121-651-11	10		16 V	electrolytic
C213	1-101-118-11	0.01	±20 %	50 V	ceramic
C214	1-121-651-11	10		16 V	electrolytic
C215	1-105-677-12	0.022	±10 %	50 V	mylar
C216	1-105-689-12	0.22	±10 %	50 V	mylar
C217	1-123-068-11	220		16 V	electrolytic
C218	1-102-977-11	200 p	±5 %	50 V	ceramic
C219	1-121-413-11	100		6.3 V	electrolytic
C220	1-121-651-11	10		16 V	electrolytic
C221	1-107-140-11	240 p	±10 %	50 V	silvered mica
C222	1-102-824-11	470 p	±5 %	50 V	ceramic
C223	1-131-196-11	2.2		16 V	tantalum
C224	1-102-960-11	24 p	±5 %	50 V	ceramic
C225	1-101-922-11	0.0047	+80 −20 %	25 V	ceramic
C226	1-101-923-11	0.01	+80 −20 %	25 V	ceramic
C227	1-105-683-12	0.068	±10 %	50 V	mylar
C228	1-121-391-11	1		50 V	electrolytic
C229	1-121-395-11	4.7		25 V	electrolytic
C230	1-121-651-11	10		16 V	electrolytic
C231	1-127-022-11	0.47	±10 %	10 V	solid aluminum
C232	1-102-960-11	24 p	±5 %	50 V	ceramic
C233	1-101-924-11	0.022	+80 −20 %	25 V	ceramic
C234	1-101-924-11	0.022	+80 −20 %	25 V	ceramic
C235	1-101-118-11	0.01	±20 %	50 V	ceramic
C236	1-121-413-11	100		6.3 V	electrolytic
C237	1-101-923-11	0.01	+80 −20 %	25 V	ceramic
C301	1-121-402-11	33		10 V	electrolytic
C302	1-121-352-11	47		10 V	electrolytic

Ref. No.	Part No.	Description			
C303	1-121-413-11	100		6.3 V	electrolytic
C304	1-127-022-11	0.47		10 V	solid aluminum
C305	1-103-575-11	4.700 p	±5 %	50 V	styrol
C306	1-105-661-12	0.001	±10 %	50 V	mylar
C307	1-123-068-11	220		16 V	electrolytic
C321(C371)	1-106-013-12	0.0033	±5 %	50 V	mylar
C322(C372)	1-121-912-11	1		50 V	electrolytic
C323(C373)	1-121-912-11	1		50 V	electrolytic
C324(C374)	1-105-661-12	0.001	±10 %	50 V	mylar
C325(C375)	1-102-973-11	100 p	±5 %	50 V	ceramic
C326(C376)	1-121-352-11	47		10 V	electrolytic
C327(C377)	1-121-392-11	3.3		25 V	electrolytic
C401	1-105-673-12	0.01	±10 %	50 V	mylar
C402		----------			
C403	1-102-953-11	18 p	±25 %	25 V	ceramic
C404		----------			
C405	1-121-409-11	47		16 V	electrolytic
C406	1-105-677-12	0.022	±10 %	50 V	mylar
C407	1-103-815-11	390 p	±5 %	25 V	styrol
C408	1-101-923-11	0.01	$^{+80}_{-20}$ %	25 V	ceramic
C409	1-101-923-11	0.01	$^{+80}_{-20}$ %	25 V	ceramic
C410	1-105-677-12	0.022	±10 %	50 V	mylar
C411	1-105-669-12	0.0047	±10 %	50 V	mylar
C412	1-101-923-11	0.01	$^{+80}_{-20}$ %	25 V	ceramic
C413	1-105-677-12	0.022	±10 %	50 V	mylar
C414		----------			
C415	1-102-977-11	200 p	±5 %	25 V	ceramic
C416	1-102-936-11	3 p	±0.25 pF	25 V	ceramic
C417	1-121-651-11	10		16 V	electrolytic
C418	1-121-395-11	4.7		25 V	electrolytic
C419	1-121-398-11	10		25 V	electrolytic
C420	1-101-923-11	0.01	$^{+80}_{-20}$ %	25 V	ceramic
C421	1-105-672-12	0.0082	±10 %	50 V	mylar
C422	1-105-672-12	0.0082	±10 %	50 V	mylar
C423	1-105-672-12	0.0082	±10 %	50 V	mylar
C424	1-101-924-11	0.022	$^{+80}_{-20}$ %	25 V	ceramic
C425	1-121-651-11	10		16 V	electrolytic
C426	1-101-924-11	0.022	$^{+80}_{-20}$ %	25 V	ceramic
C427	1-105-682-12	0.056	±10 %	50 V	mylar
C428	1-101-923-11	0.01	$^{+80}_{-20}$ %	25 V	ceramic
C501(C551)	1-131-206-11	3.3		25 V	tantalum
C502(C552)	1-121-926-11	33		10 V	electrolytic
C503(C553)	1-102-978-11	220 p	±5 %	50 V	ceramic
C504(C554)		----------			
C505(C555)	1-101-880-11	47 p	±5 %	50 V	ceramic
C506(C556)	1-106-005-12	0.0015	±5 %	50 V	mylar
C507(C557)	1-106-019-12	0.0056	±5 %	50 V	mylar
C508(C558)	1-121-911-11	0.47		50 V	electrolytic
C509(C559)	1-105-661-12	0.001	±10 %	50 V	mylar
C510(C560)	1-131-206-11	3.3		25 V	tantalum
C511(C561)	1-105-661-12	0.001	±10 %	50 V	mylar
C512(C562)	1-123-044-11	33		25 V	electrolytic
C513(C563)	1-121-913-11	3.3		25 V	electrolytic
C514(C564)	1-121-416-11	100		25 V	electrolytic
C515(C565)	1-105-685-12	0.1	±10 %	50 V	mylar
C516(C566)	1-121-398-11	10		25 V	electrolytic
C601(C651)	1-105-677-12	0.022	±10 %	50 V	mylar
C602(C652)	1-102-982-11	180 p	±10 %	50 V	ceramic
C603(C653)	1-131-206-11	3.3		25 V	tantalum
C604(C654)	1-121-392-11	3.3		25 V	electrolytic
C605(C655)	1-105-679-12	0.033	±10 %	50 V	mylar
C606(C656)	1-105-679-12	0.033	±10 %	50 V	mylar
C607(C657)	1-105-665-12	0.0022	±10 %	50 V	mylar
C608(C658)	1-121-398-11	10		25 V	electrolytic
C609(C659)	1-121-352-11	47		10 V	electrolytic
C610(C660)	1-102-978-11	220 p	±5 %	50 V	ceramic
C611(C661)	1-102-978-11	220 p	±5 %	50 V	ceramic
C612(C662)	1-102-978-11	220 p	±5 %	50 V	ceramic
C613(C663)	1-121-392-11	3.3		25 V	electrolytic
C614(C664)	1-106-023-12	0.0082	±5 %	50 V	mylar
C615(C665)	1-106-013-12	0.0033	±5 %	50 V	mylar
C616(C666)	1-106-041-12	0.047	±5 %	50 V	mylar
C617(C667)	1-106-031-12	0.018	±5 %	50 V	mylar
C618(C668)	1-121-392-11	3.3		25 V	electrolytic
C619(C669)	1-121-392-11	3.3		25 V	electrolytic
C620	1-105-671-12	0.0068	±10 %	50 V	mylar
C701(C751)	1-121-392-11	3.3		25 V	electrolytic
C702(C752)	1-102-963-11	33 p	±5 %	50 V	ceramic
C703(C753)	1-121-935-11	100		25 V	electrolytic
C704(C754)	1-102-944-11	7 p	±5 %	50 V	ceramic
C705(C755)	1-102-963-11	33 p	±5 %	50 V	ceramic
C706(C756)	1-121-392-11	3.3		25 V	electrolytic
C707(C757)	1-123-058-11	47		50 V	electrolytic
C708(C758)	1-105-679-12	0.033	±10 %	50 V	mylar
C709(C759)	1-105-665-12	0.0022	±10 %	50 V	mylar
C710(C760)	1-105-665-12	0.0022	±10 %	50 V	mylar
C711	1-121-935-11	100		25 V	electrolytic
C801	1-105-917-12	0.022	±10 %	200 V	mylar
C802	1-105-917-12	0.022	±10 %	200 V	mylar
C803	1-105-917-12	0.022	±10 %	200 V	mylar
C804	1-105-917-12	0.022	±10 %	200 V	mylar
C805	1-123-065-11	330		25 V	electrolytic
C806	1-123-065-11	330		25 V	electrolytic
C807	1-121-413-11	100		6.3 V	electrolytic
C808	1-123-090-11	47		63 V	electrolytic
C809	1-121-392-11	3.3		25 V	electrolytic
C810	1-121-726-11	0.47		50 V	electrolytic
C811	1-121-936-11	220		25 V	electrolytic
C812	1-121-936-11	220		25 V	electrolytic
C813	1-121-391-11	1		50 V	electrolytic
C814	1-121-935-11	100		25 V	electrolytic

Ref. No.	Part No.	Description
C815	1-121-935-11	100 25 V electrolytic
C816	1-123-090-11	47 63 V electrolytic
C817	1-123-090-11	47 63 V electrolytic
C818	1-105-725-12	0.1 ±10 % 100 V mylar
C819	1-105-725-12	0.1 ±10 % 100 V mylar
C820	1-121-410-11	47 25 V electrolytic
C821	1-121-936-11	220 25 V electrolytic
C822	1-105-677-12	0.022 ±10 % 50 V mylar
C823	1-121-392-11	3.3 25 V electrolytic
C824	1-105-673-12	0.01 ±10 % 50 V mylar
C901	1-123-089-11	6800 63 V electrolytic
C902	1-123-089-11	6800 63 V electrolytic
CT401,402	1-141-095-11	capacitor, trimmer
CV101,102 CV103,104 CV105,106	1-151-232-12	capacitor, tuning

RESISTORS

All resistance values are in Ω, ± 5 %, ¼ W and carbon type unless otherwise indicated.

R104	1-244-665-11	470
R105	1-242-689-11	4.7 k
R106	1-242-696-11	9.1 k
R107	1-242-666-11	510
R108	1-242-673-11	1 k
R109	1-242-642-11	51
R110	1-242-697-11	10 k
R111	1-244-692-11	6.2 k
R112	1-242-666-11	510
R113	1-242-677-11	1.5 k
R114	1-242-685-11	3.3 k
R115	1-242-677-11	1.5 k
R116	1-242-721-11	100 k
R117	1-244-697-11	10 k
R118	1-244-675-11	1.2 k
R119	1-244-708-11	30 k
R201	1-244-655-11	180
R202	1-242-661-11	330
R203	1-242-671-11	820
R204	1-242-693-11	6.8 k
R205	1-242-663-11	390
R206	1-242-680-11	2 k
R207	1-244-649-11	100
R208	1-242-673-11	1 k
R209	1-242-687-11	3.9 k
R210	1-242-673-11	1 k
R211	1-242-649-11	100
R212	1-244-649-11	100
R213	1-242-691-11	5.6 k
R214	1-242-661-11	330
R215	1-242-684-11	3 k
R216	1-242-669-11	680
R217	1-242-663-11	390
R218	1-242-661-11	330
R219	1-242-669-11	680
R220	1-242-663-11	390
R221	1-244-649-11	100
R222	1-242-675-11	1.2 k
R223	1-242-697-11	10 k
R224	1-242-641-11	47
R225	1-242-641-11	47
R226	1-242-721-11	100 k
R227	1-242-745-11	1 M
R228	1-242-745-11	1 M
R229	1-242-721-11	100 k
R230	1-244-649-11	100
R231	1-242-673-11	1 k
R232	1-242-706-11	24 k
R233	1-242-655-11	180
R234	1-242-713-11	47 k
R235	1-244-673-11	1 k
R236	1-242-657-11	220
R237	1-242-705-11	22 k
R238	1-242-703-11	18 k
R239	1-242-649-11	100
R240	1-242-689-11	4.7 k
R241	1-242-632-11	20
R242	1-242-701-11	15 k
R243	1-242-699-11	12 k
R244	1-242-632-11	20
R245	1-242-701-11	15 k
R246	1-242-699-11	12 k
R247	1-242-685-11	3.3 k
R248	1-244-731-11	270 k
R249	1-242-714-11	51 k
R250	1-242-745-11	1 M
R251	1-242-735-11	390 k
R252	1-242-723-11	120 k
R253	1-242-711-11	39 k
R254	1-242-721-11	100 k
R255	1-242-745-11	1 M
R256	1-242-673-11	1 k
R257	1-242-677-11	1.5 k
R301	1-242-669-11	680
R302	1-242-701-11	15 k
R303	1-242-684-11	3 k
R304	1-242-684-11	3 k
R305	1-242-681-11	2.2 k
R306	1-202-559-11	270 ½ W composition
R321(R371)	1-242-709-11	33 k
R322(R372)	1-242-693-11	6.8 k
R323(R373)	1-242-693-11	6.8 k

Ref. No.	Part No.	Description
R324(R374)	1-242-713-11	47 k
R325(R375)	1-242-724-11	130 k
R326(R376)	1-242-665-11	470
R327(R377)	1-242-693-11	6.8 k
R328(R378)	1-242-681-11	2.2 k
R329(R379)	1-242-663-11	390
R330(R380)	1-242-709-11	33 k
R331(R381)	1-242-681-11	2.2 k
R401	1-242-697-11	10 k
R402	1-242-690-11	5.1 k
R403	1-244-673-11	1 k
R404	1-242-649-11	100
R405	1-242-716-11	62 k
R406	1-242-682-11	2.4 k
R407	1-242-671-11	820
R408	1-242-697-11	10 k
R409	1-242-673-11	1 k
R410	1-242-656-11	200
R411	1-242-709-11	33 k
R412	1-242-687-11	3.9 k
R413	1-242-693-11	6.8 k
R414	1-242-672-11	910
R415	1-242-641-11	47
R416	1-242-672-11	910
R417	1-242-689-11	4.7 k
R418	1-242-673-11	1 k
R419	1-242-713-11	47 k
R420	1-244-643-11	56
R501(R551)	1-242-715-11	56 k
R502(R552)	1-242-737-11	470 k
R503(R553)	1-242-670-11	750
R504(R554)	1-242-673-11	1 k
R505(R555)	1-242-683-11	2.7 k
R506(R556)	1-242-713-11	47 k
R507(R557)	1-242-741-11	680 k
R508(R558)	1-242-721-11	100 k
R509(R559)	1-242-685-11	3.3 k
R510(R560)	1-242-721-11	100 k
R511(R561)	1-242-721-11	100 k
R512(R562)	1-242-673-11	1 k
R513(R563)	1-242-721-11	100 k
R514(R564)	1-242-718-11	75 k
R515(R565)	1-242-705-11	22 k
R516(R566)	1-242-713-11	47 k
R517(R567)	1-242-671-11	820
R518(R568)	1-242-697-11	10 k
R519(R569)	1-242-657-11	220
R520(R570)	1-242-709-11	33 k
R521(R571)	1-242-685-11	3.3 k
R522(R572)	1-242-673-11	1 k
R523(R573)	1-242-698-11	12 k

Ref. No.	Part No.	Description		
R524(R574)	1-242-709-11	33 k		
R525(R575)	1-242-697-11	10 k		
R526(R576)	1-244-699-11	24 k		
R601(R651)	1-244-703-11	18 k		
R602(R652)	1-244-717-11	68 k		
R603(R653)	1-242-731-11	270 k		
R604(R654)	1-242-663-11	390		
R605(R655)	1-242-711-11	39 k		
R606(R656)	1-242-677-11	1.5 k		
R607(R657)	1-242-697-11	10 k		
R608(R658)	1-242-697-11	10 k		
R609(R659)	1-242-689-11	4.7 k		
R610(R660)	1-242-697-11	10 k		
R611(R661)	1-242-673-11	1 k		
R612(R662)	1-242-721-11	100 k		
R613(R663)	1-242-673-11	1 k		
R614(R664)	1-242-721-11	100 k		
R615(R665)	1-242-673-11	1 k		
R616(R666)	1-242-693-11	6.8 k		
R617(R667)	1-242-709-11	33 k		
R618(R668)	1-242-649-11	100		
R619(R669)	1-242-679-11	1.8 k		
R620(R670)	1-242-687-11	3.9 k		
R621(R671)	1-242-673-11	1 k		
R622(R672)	1-242-715-11	56 k		
R623(R673)	1-242-739-11	560 k		
R624(R674)	1-242-731-11	270 k		
R625(R675)	1-242-673-11	1 k		
R626(R676)	1-242-701-11	15 k		
R627(R677)	1-242-709-11	33 k		
R628(R678)	1-242-689-11	4.7 k		
R629	1-242-721-11	100 k		
R701(R751)	1-244-745-11	1 M		
R702(R752)	1-244-673-11	1 k		
R703(R753)	1-244-714-11	51 k		
R704(R754)	1-244-908-11	30 k	½ W	
R705(R755)	1-244-677-11	1.5 k		
R706(R756)	1-244-670-11	750		
R707(R757)	1-244-666-11	510		
R708(R758)	1-244-685-11	3.3 k		
R709(R759)	1-244-697-11	10 k		
R710(R760)	1-244-714-11	51 k		
R711(R761)	1-202-583-11	2.7 k	½ W	composition
R712(R762)	1-202-583-11	2.7 k	½ W	composition
R713(R763)	1-244-701-11	15 k		
R714(R764)	1-244-661-11	330		
R715(R765)	1-244-661-11	330		
R716(R766)	1-244-649-11	100		
R717(R767)	1-202-517-11	4.7	½ W	composition
R718(R768)	1-217-158-11	0.47	5 W	metal
R719(R769)	1-217-158-11	0.47	5 W	metal

Ref. No.	Part No.	Description
R720(R770)	1-202-525-11	10 ½ W composition
R721(R771)	1-202-517-11	4.7 ½ W composition
R722(R772)	1-202-565-11	470 ½ W composition
R723(R773)	1-202-565-11	470 ½ W composition
R724(R774)	1-244-697-11	10 k
R725	1-244-697-11	10 k
R726	1-244-697-11	10 k
R801	1-207-635-11	82 2 W wirewound
R802	1-207-688-11	220 5 W wirewound
R803	1-244-685-11	3.3 k
R804	1-207-639-11	330 2 W wirewound
R805	1-244-649-11	100
R806	1-244-665-11	470
R807	1-242-706-11	24 k
R808	1-242-721-11	100 k
R809	1-242-697-11	10 k
R810	1-242-720-11	91 k
R811	1-242-707-11	27 k
R812	1-242-726-11	160 k
R813	1-242-705-11	22 k
R814	1-242-697-11	10 k
R815	1-242-701-11	15 k
R816	1-242-703-11	18 k
R817	1-202-565-11	470 ½ W composition
R818	1-242-697-11	10 k USA Model only (Serial No. up to 808,100)
	1-242-671-11	820 USA Model (Serial No. 808,101 and later) Canada Model (Serial No. 700,001 and later) GEP Model (Serial No. 400,001 and later)
R819	1-242-671-11	820
R820	1-242-705-11	22 k
R821	1-202-587-11	3.9 k ½ W composition
R822	1-202-577-11	1.5 k ½ W composition
R823	1-202-577-11	1.5 k ½ W composition
R824	1-202-582-11	2.4 k ½ W composition
R825	1-202-582-11	2.4 k ½ W composition
R826	1-244-657-11	220
R827	1-244-641-11	47
R828	1-202-550-11	110 ½ W composition
R829	1-207-630-11	22 2 W wirewound
R830	1-207-630-11	22 2 W wirewound
R831	1-207-929-11	2.7 5 W wirewound
R832	1-202-510-11	2.4 k ½ W composition
R833	1-202-510-11	2.4 k ½ W composition
R837	1-242-705-11	22 k USA Model (Serial No. 808,101 and later) Canada Model (Serial No. 700,001 and later) GEP Model (Serial No. 400,001 and later)
R838	1-244-632-11	20 ±5 % ¼ W carbon
R839	1-244-632-11	20 ±5 % ¼ W carbon
R840	1-213-121-11	20 ±5 % 1 W fuse, metal-coated
R901(R951)	1-244-697-11	10 k
R902(R952)	1-244-697-11	10 k
R903(R953)	1-244-719-11	82 k
R904(R954)	1-244-735-11	390 k
R905	1-202-645-11	1 M ½ W composition (USA and Canada Model)
RT201	1-222-845-11	100 k (B), adjustable
RT202	1-221-978-11	4.7 k (B), adjustable
RT301	1-221-978-11	4.7 k (B), adjustable
RT401	1-221-997-11	2.2 k (B), adjustable
RT701 (RT751)	1-221-967-11	10 k (B), adjustable
RV501 (RV551)	1-224-103-11	50 k (C), variable (MIC MIXING)
RV601 (RV651)	1-224-102-11	250 k (B)/250 k (M), variable (VOLUME)
RV602 (RV652)	1-224-102-11	250 k (B)/250 k (M), variable (BALANCE)
RV603 (RV653)	1-224-101-11	50 k (B), variable (TREBLE)
RV604 (RV654)	1-224-101-11	50 k (B), variable (BASS)

SWITCHES

S1	1-516-199-00	rotary/slide (FUNCTION)
S2	1-516-036-00	lever (MONITOR 1)
S3	1-516-036-00	lever (MONITOR 2)
S4	1-516-196-00	rotary/slide (MODE)
S5	1-516-036-00	lever (LOUDNESS)
S6	1-516-197-00	rotary/slide (FILTER)
S7	1-514-524-00	slide (NORMAL/SEPARATE)
S8	1-514-198-00	rotary/slide (SPEAKER)
S9	1-516-036-00	lever (MUTING)
S10	1-514-448-00	slide (DE-EMPHASIS)
S11	1-516-007-00	seesaw (POWER) (USA and Canada Model)
	1-516-315-00	seesaw (POWER) (GEP Model)
S12-1 ~ 3		MIC MIXING (built in RV501, 551)

FILTERS

CF201,202	1-527-507-12	fm i-f, ceramic 10.70 MHz (red)
	1-527-507-22	fm i-f, ceramic 10.66 MHz (black)
	1-527-507-32	fm i-f, ceramic 10.74 MHz (white)
	1-527-507-42	fm i-f, ceramic 10.62 MHz (green)
	1-527-507-52	fm i-f, ceramic 10.78 MHz (yellow)

Ref. No.	Part No.	Description
		MISCELLANEOUS
CB701 (CB751)	1-515-194-00	breaker, circuit
CP201	1-231-193-00	encapsulated component
CP301,302	1-231-224-00	encapsulated component
CP901	1-231-057-12	encapsulated component, 0.033 μF + 120 Ω
CNJ901	1-509-517-00	connector, REC/PB
CNJ902	1-507-265-00	jack, HEADPHONE
CNJ903,904 CNJ905	1-509-403-00	outlet, ac (USA and Canada Model only)
CNJ906 CNJ907	1-507-394-00	jack, MIC
CNJ908	1-509-546-00	connector, ac input (3-p) (GEP Model only)
F901, 902	1-532-269-00	fuse, 2.5 A (USA and Canada Model)
F901, 902	1-532-252-00	fuse, 2.5 A (GEP Model)
J901 ~ 908 (J951~958)	1-507-393-00	jack, phono; 8-p
M901	1-520-140-00	meter, TUNING
M902	1-520-141-00	meter, TUNER INPUT
PL901,902	1-518-116-00	lamp, dial 11V/0.36 A
PL903	1-518-124-00	lamp, TUNING 8 V/0.25 A
PL904	1-518-151-00	lamp, pointer
PL905	1-518-158-00	lamp, STEREO
PL906	1-518-124-00	lamp, TUNER INPUT meter 8 V/0.25 A
PL907 ~ PL912	1-518-121-00	lamp, AUX, PHONO, FM, A-M, TAPE, MIC 4.5 V/0.04 A
VS901	1-526-520-11	selector, voltage
	1-509-437-00	socket, power transistor
	1-517-057-00	holder, meter lamp; 2-p
	1-533-090-00	holder, dial lamp
	1-534-526-21	cord, power (USA and Canada Model only)
	1-535-055-00	lug terminal
	1-536-353-00	terminal post, U-shaped (single)
	1-536-354-00	terminal post (C)
	1-536-355-00	terminal post, U-shaped (double)
	1-536-395-00	terminal strip, 1L1C
	1-536-398-00	terminal strip, 2L2C
TM901 ~ TM904	1-536-415-00	screw terminal strip, 4-p (ANTENNA)
	1-582-233-00	jumper board, 8-p phono jack

9-958-032-11

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SONY®

New Price

Complete Spare Parts List

FM STEREO / FM-AM RECEIVER

Model STR-7065

GEP MODEL

IMPORTANT

When ordering parts, be sure to furnish the following information:

1. Part Number
2. Model Number
3. Description as contained in this parts list

Due to our use of an electronic data processing system, your orders are processed by the PART NUMBER specified by you.

Please order carefully-wrong part numbers result in wrong parts.

NOTE: Prices are subject to change without notice.

SONY CORPORATION

COMPLETE SPARE PARTS LIST FOR STR-7065

GEP Model

FEBRUARY, 1974

Part No.	Description	Unit Price	
	I. MECHANICAL PARTS		
X-20437-13-0	Holder Ass'y, a-m bar antenna	$0.06	DM0.17
X-20437-54-0	Flywheel Ass'y	0.30	0.84
X-20472-09-0	Knob Ass'y, POWER; LOUDNESS; MUTING; MONITOR	0.15	0.42
X-20680-04-0	Terminal Ass'y, ground	0.06	0.17
X-48030-04-0	Knob Ass'y, SPEAKER; FILTER; MODE; FUNCTION	0.21	0.59
X-48030-07-0	Knob Ass'y, TONE (R-CH)	0.19	0.54
X-48030-08-0	Knob Ass'y, TONE (L-CH)	0.21	0.59
X-48090-07-0	Illuminator Ass'y, STEREO	0.13	0.37
X-48223-01-0	Chassis Ass'y	2.12	5.99
X-48223-02-0	Illuminator Ass'y, dial scale	0.77	2.17
X-48223-03-0	Bracket Ass'y, dial cord pulley	0.15	0.42
X-48223-04-0	Subchassis Ass'y, front	2.00	5.65
X-48223-05-0	Knob Ass'y, MIC MIXING	0.21	0.59
X-48223-06-0	Cover Ass'y, power transformer	0.97	2.73
X-48223-07-0	Knob Ass'y, BALANCE	0.15	0.42
X-48223-08-0	Knob Ass'y, VOLUME	0.24	0.68
X-48223-09-0	Knob Ass'y, TUNING	0.43	1.21
0-051-263-00	Foot, rubber	0.03	0.08
2-043-749-05	Case, shield	2.13	6.02
2-043-776-00	Bracket, front panel	0.03	0.08
2-047-106-00	Light Shield (A)	0.01	0.03
2-047-151-00	Band, a-m bar antenna	0.01	0.03
2-056-635-00	Bracket (B), tuning capacitor	0.11	0.31
2-056-643-00	Cushion, tuning capacitor	0.02	0.06
2-056-655-00	Label, DE-EMPHASIS	0.01	0.03
2-056-666-00	Clamp, lead wire; 8 mm dia	0.01	0.03
2-057-730-00	Pulley, dial cord	0.03	0.08
2-057-960-00	Insulator (B), fiber; power transformer	0.19	0.54
2-066-107-05	Screw, shield case	0.07	0.20
2-068-008-00	Washer, ground terminal	0.01	0.03
2-068-548-00	Nut-plate, a-m antenna	0.02	0.06

Part No.	Description	Unit Price	
2-825-003-00	Insulator, mica	$0.03	DM0.08
3-442-022-00	Grommet, lamp	0.02	0.06
3-701-454-00	Clamp, lead wire	0.02	0.06
3-701-544-00	Nut, flange; 3 mm dia	0.02	0.06
3-852-803-00	Shield Plate (A), front-end	0.03	0.08
3-854-002-00	Shield Plate (C), front-end	0.05	0.14
4-303-474-00	Clamp, lead wire	0.01	0.03
4-303-820-00	Clamp, lead wire	0.02	0.06
4-515-046-00	Heat Sink (B)	0.06	0.17
4-803-054-00	Screw (A), voltage selector cover	0.02	0.06
4-803-055-00	Screw (B), voltage selector cover	0.01	0.03
4-803-957-00	Terminal Post (A)	0.01	0.03
4-804-157-00	Clamp, lead wire	0.02	0.06
4-804-160-21	Screw, self-tapping; (+) B 3 x 6	0.01	0.03
4-804-163-00	Insulator (A), fiber; power transformer	0.01	0.03
4-809-050-00	Spring, tension	0.04	0.11
4-809-055-00	Cushion, dial glass	0.02	0.06
4-809-248-00	Terminal Post (B)	0.02	0.06
4-810-008-00	Guide, lever switch	0.02	0.06
4-812-134-00	Rivet, nylon (3.5 mm dia x 5.5 m)	0.01	0.03
4-818-032-00	Washer, nylon	0.01	0.03
4-818-044-00	Reflector (B)	0.02	0.06
4-818-045-00	Light Shield (B)	0.01	0.03
4-818-103-00	Clamp, lead wire; 5 mm dia	0.02	0.06
4-818-302-00	Shield Plate	0.03	0.08
4-820-421-00	Holder, varistor	0.03	0.08
4-822-214-00	Holder (C), dial glass	0.06	0.17
4-822-216-00	Panel, rear	1.17	3.29
4-822-325-00	Scale, dial	0.68	1.91
4-822-326-00	Heat Sink (A)	1.57	4.44
4-822-328-00	Panel, front	0.17	0.48
4-822-329-00	Illuminator, function indication	0.35	0.99
4-822-330-00	Shade, meter lamp	0.22	0.62
4-822-331-00	Bracket, MIC amp board	0.06	0.17
4-822-332-00	Shade, function lamp	0.11	0.31
4-822-333-00	Cushion, dial scale	0.54	0.14
4-822-334-00	Clamp, antenna lead wire	0.02	0.06
4-822-335-00	Plate, heat sink support	0.11	0.31
4-822-336-00	Stopper, lead wire	0.02	0.06
4-822-337-00	Escutcheon, dial scale	2.36	6.67

Part No.	Description	Unit Price	
4-822-338-00	Plate, bottom	$1.40	DM3.96
4-822-340-00	Bracket (A), tuning capacitor	0.33	0.93
4-822-341-00	Cover, fm front-end	0.65	1.83
4-822-343-00	Cushion, dial scale	0.01	0.03
4-822-344-00	Terminal Post (D)	0.01	0.03
4-822-345-00	Drum, tuning	0.06	0.17
4-822-346-00	Bracket, dial lamp holder	0.04	0.11
4-822-347-00	Shaft, tuning	0.19	0.54
4-822-348-00	Bracket, flywheel	0.17	0.48
4-822-349-00	Holder, dial scale	0.02	0.06
4-822-350-00	Plate, power transformer support	0.19	0.54
4-822-351-00	Glass, dial	0.32	0.90
4-822-352-00	Plate, connection	0.02	0.06
4-822-353-00	Braket, heat sink	0.05	0.14
4-822-354-00	Bracket (C), printed circuit board	0.03	0.08
4-822-355-11	Cover, voltage selector	0.07	0.20
4-822-356-00	Holder (A), dial glass	0.03	0.08
4-822-358-00	Bracket (D), printed circuit board	0.03	0.08
4-822-359-00	Light Shield (C)	0.06	0.17
4-822-369-00	Label, specification	0.04	0.11
4-824-701-00	Bracket, control board	0.36	1.01
4-824-801-00	Shield Plate, front-end	0.02	0.06

Part No.	Description	Unit Price	
	II. HARDWARE		
	Screws		
	All screws are Phillips (cross recess) type unless otherwise indicated. (-): slotted head.		
		(Per 100)	
7-621-559-45	K 2.6 x 6	$0.12	DM0.34
7-621-773-65	B 2.6 x 4	0.19	0.54
7-682-545-05	B 3 4	0.37	1.04
7-682-547-01	B 3 x 6	0.15	0.42
7-682-548-03	B 3 x 8	0.15	0.42
7-682-549-01	B 3 x 10	0.16	0.45
7-682-550-13	B 3 x 12	0.16	0.45
7-682-563-01	B 4 x 12	0.21	0.59
7-682-147-01	P 3 x 6	0.24	0.68
7-682-147-07	P 3 x 6	0.24	0.68
7-682-148-05	P 3 x 8	0.36	1.01
7-682-645-01	PS 3 x 4	0.33	0.93
7-682-647-01	PS 3 x 6	0.24	0.68
7-682-649-03	PS 3 x 10	0.32	0.90
7-682-660-01	PS 4 x 6	0.35	0.99
7-682-661-01	PS 4 x 8	0.29	0.82
7-682-947-01	PSW 3 x 6	0.52	1.46
7-682-948-01	PSW 3 x 8	0.52	1.46
7-682-949-01	PSW 3 x 10	0.57	1.61
7-685-544-22	B 3 x 5, self-tapping	0.47	1.32
7-685-545-21	B 3 x 6, self-tapping	0.29	0.82
7-685-546-23	B 3 x 8, self-tapping	0.32	0.90
7-685-546-25	B 3 x 8, self-tapping	0.74	2.08
	Washers		
7-623-108-12	3 mm dia (middle)	0.08	0.23
7-623-112-11	5 mm dia (middle)	0.27	0.76
7-623-207-22	2.6 mm dia, spring	0.06	0.17
7-623-208-22	3 mm dia, spring	0.06	0.17
7-623-408-02	3 mm dia, lock (external tooth)	0.22	0.62

Part No.	Description	Unit Price	
7-623-508-01	Lug, 3 mm dia	$0.16	DM0.45
7-623-616-01	Eyelet, 2 x 3 mm dia	0.06	0.17
7-624-109-01	Retaining Ring, 5 mm dia	0.05	0.14
7-684-023-01	Nut, 3 mm dia	0.31	0.87
7-633-120-43	Cord, dial	0.02/m	0.06/m

Ref. No.	Part No.	Description	Unit Price	
		III. ELECTRICAL PARTS		
		Complete Circuit Boards		
	Y-48248-01-1	Fm Front-end (FAF-022BWG) ----------	$ 10.84	DM 30.53
	X-4822-324-0	A-m Front-end/I-f Amp/MPX ----------	19.25	54.21
	Y-48247-01-1	Control (CCB-115) ----------	30.52	86.25
	X-4822-321-0	Loudness Control ----------	2.31	6.50
	X-4822-322-0	MIC Amp ----------	3.13	8.81
	X-4822-325-0	Power Amp/Power Supply Board -------	14.68	41.34
	X-4822-323-0	REC/PB ----------	-	-
		Semiconductors		
Q101		FET, 2SK42 ----------	0.48	1.35
Q102		FET, 2SK23A ----------	0.48	1.35
Q103		Transistor, 2SC403C ----------	0.20	0.54
Q104		Transistor, 2SC710 ----------	0.13	0.37
Q201		Transistor, 2SC403C ----------	0.20	0.56
Q202		Transistor, 2SC403C ----------	0.20	0.56
Q203		Transistor, 2SC403C ----------	0.20	0.56
Q204		FET, 2SK23A ----------	0.48	1.35
Q205		Transistor, 2SC633A ----------	0.16	0.45
Q206		Transistor, 2SC633A ----------	0.16	0.45
Q207		FET, 2SK23A ----------	0.48	1.35
Q301		Transistor, 2SC631A ----------	0.20	0.56
Q302		Transistor, 2SC631A ----------	0.20	0.56
Q303		Transistor, 2SC633A ----------	0.16	0.45
Q304		Transistor, 2SC633A ----------	0.16	0.45
Q501(Q551)		Transistor, 2SA705 ----------	0.22	0.62
Q502(Q552)		Transistor, 2SC632A ----------	0.20	0.56
Q601(Q651)		Transistor, 2SC632A ----------	0.20	0.56
Q602(Q652)		Transistor, 2SC632A ----------	0.20	0.56
Q603(Q653)		Transistor, 2SC634A ----------	0.16	0.45
Q701(Q751)		Transistor, 2SA678 ----------	0.20	0.56
Q702(Q752)		Transistor, 2SA705 ----------	0.22	0.62
Q703(Q753)		Transistor, 2SA705 ----------	0.22	0.62
Q704(Q754)		Transistor, 2SC634A ----------	0.16	0.45
Q705(Q755)		Transistor, 2SC1124 ----------	0.57	1.61

Ref. No.	Part No.	Description			Unit Price	
Q706(Q756)		Transistor,	2SC1161	----------	$0.88	DM2.48
Q707(Q757)		Transistor,	2SA653	----------	0.60	1.69
Q709		Transistor,	2SC634A	----------	0.16	0.45
Q710		Transistor,	2SA678	----------	0.20	0.56
Q711		Transistor,	2SC634A	----------	0.16	0.45
Q801		Transistor,	2SC1124	----------	0.60	1.69
Q802		Transistor,	2SC1124	----------	0.60	1.69
Q803		Transistor,	2SC634A	----------	0.16	0.45
Q804		Transistor,	2SC634A	----------	0.16	0.45
Q805		Transistor,	2SA678	----------	0.20	0.56
Q806		Transistor,	2SC634A	----------	0.16	0.45
Q807		Transistor,	2SC634A	----------	0.16	0.45
Q901(Q951)		Transistor,	2SC1079	----------	2.30	6.50
Q902(Q952)		Transistor,	2SA679	----------	2.51	7.09
D101		Diode,	1S351M	----------	0.13	0.37
D102		Diode,	1T243M	----------	0.15	0.42
D201		Diode,	1T22A	----------	0.05	0.14
D202		Diode,	1T22A	----------	0.05	0.14
D203		Diode,	1S1555	----------	0.07	0.20
D204		Diode,	1T22A	----------	0.05	0.14
D205		Diode,	1T22A	----------	0.05	0.14
D206		Diode,	1S1555	----------	0.07	0.20
D207		Diode,	1T22A	----------	0.05	0.14
D208		Diode,	1T22A	----------	0.05	0.14
D701(D751)		Diode,	VD-1221	----------	0.07	0.20
D702(D752)		Diode,	SH-1S	----------	0.07	0.20
D703(D753)		Diode,	SH-1S	----------	0.07	0.20
D704(D754)		Diode,	SH-1S	----------	0.07	0.20
D801		Diode,	1T243M	----------	0.15	0.42
D802		Diode,	1T243M	----------	0.15	0.42
D803		Diode,	UO-5E	----------	0.25	0.70
D804		Diode,	UO-5E	----------	0.25	0.70
D805		Diode,	UO-5E	----------	0.25	0.70
D806		Diode,	UO-5E	----------	0.25	0.70
D807		Diode,	SH-1S	----------	0.07	0.20
D808		Diode,	SH-1S	----------	0.07	0.20
D809		Diode,	1S1555	----------	0.07	0.20
D810		Diode,	SH-1S	----------	0.07	0.20
D811		Diode,	SH-1S	----------	0.07	0.20

Ref. No.	Part No.	Description		Unit Price	
D901(D951)		Diode,	SV-31 ----------	$0.07	DM0.20
IC201		IC,	CX-0412 ----------	1.08	3.05
IC301		IC,	CX-0431 ----------	1.42	4.01
IC401		IC,	CX-0451 ----------	1.42	4.01
IC501		IC,	CX-0461 ----------	1.42	4.01
IC601(IC651)		IC,	CX-0461 ----------	1.42	4.01

Transformers, Coils and Inductors

B1	1-417-014-21	Balun ----------	0.06	0.17
CFT401	1-403-150-00	CFT ----------	0.21	0.59
IFT101	1-403-295-12	IFT, fm; 10.7 MHz ----------	0.13	0.37
L101	1-401-489-00	Coil, fm antenna ----------	0.15	0.42
L102	1-425-446-12	Coil, fm rf1 ----------	0.11	0.31
L103	1-425-668-00	Coil, fm rf2 ----------	0.13	0.37
L104	1-405-377-00	Coil, osc ----------	0.13	0.37
L105	1-407-184-00	Inductor, micro; 3.3 µH ----------	0.05	0.14
L106	1-407-184-00	Inductor, micro; 3.3 µH ----------	0.05	0.14
L201	1-407-418-00	Coil, trap; SCA ----------	0.16	0.45
L202	1-407-163-00	Inductor, micro; 3.3 µH ----------	0.03	0.08
L203	1-407-169-00	Inductor, micro; 100 µH ----------	0.03	0.08
L401	1-407-169-00	Inductor, micro; 100 µH ----------	0.03	0.08
L402	1-407-169-00	Inductor, micro; 100 µH ----------	0.03	0.08
L701(L751)	1-407-592-00	Inductor, micro; 1.8 µH ----------	0.07	0.20
L901(L902)	1-401-558-21	Bar Antenna, a-m ----------	0.73	2.06
MU301	1-464-009-00	MPX Unit ----------	0.73	2.06
T201	1-403-291-00	Transformer, discriminator; 10.7 MHz -	0.30	0.84
T202	1-403-299-00	Transformer, muting ----------	0.15	0.42
T301	1-425-729-00	Transformer, switching; 38 kHz -----	0.43	1.21
T401	1-405-459-00	Coil, MW osc. ----------	0.11	0.31
T402	1-403-128-00	IFT, a-m ----------	0.10	0.28
T801	1-442-285-00	Transformer, power ----------	22.28	62.97

Capacitors

Capacitors listed here are +80 -20%, 25V, ceramic type unless otherwise specified and in µF except as indicated with p(p means µµ). (elect = electrolytic)

C101	1-102-880-11	15 p	±0.5p	50 V	----------	0.02	0.06
C102	-	-				-	-

Ref. No.	Part No.	Description				Unit Price	
C103	1-102-880-11	15 p	±0.5 p	50 V	----------	$0.02	DM0.06
C104	1-102-064-11	0.75 p	±10 %	50 V	----------	0.03	0.08
C105	1-102-880-11	15 p	±0.5 p	50 V	----------	0.02	0.06
C106	1-102-848-11	180 p	±0.5 p	50 V	----------	0.02	0.06
C107	1-101-923-11	0.01	----------			0.02	0.06
C108	1-101-923-11	0.01	----------			0.02	0.06
C109	1-101-923-11	0.01	----------			0.02	0.06
C110	1-101-918-11	0.001	----------			0.02	0.06
C111	1-101-924-11	0.022	----------			0.02	0.06
C112	1-101-924-11	0.022	----------			0.02	0.06
C113	1-101-924-11	0.022	----------			0.02	0.06
C114	1-101-923-11	0.01	----------			0.02	0.06
C115	1-102-875-11	7 p	±5 %	50 V	----------	0.03	0.08
C116	1-102-875-11	7 p	±5 %	50 V	----------	0.03	0.08
C117	1-102-986-11	10 p	±0.5 p	50 V	----------	0.03	0.08
C118	1-102-114-11	470 p	±10 %	50 V	----------	0.02	0.06
C119	1-101-118-11	0.01	±20 %	50 V	----------	0.02	0.06
C120	1-102-986-11	10 p	±0.5 p	50 V	----------	0.03	0.08
C121	1-101-924-11	0.022	----------			0.02	0.06
C122	1-105-679-12	0.033	±10 %	50 V	mylar -----	0.03	0.08
C123	1-121-391-11	1		50 V	elect -----	0.03	0.08
C124	1-101-924-11	0.022	----------			0.02	0.06
C125	1-101-118-11	0.01	±20 %	50 V	----------	0.02	0.06
C126	1-101-118-11	0.01	±20 %	50 V	----------	0.02	0.06
C127	1-102-986-11	10 p	±0.5 p	50 V	----------	0.03	0.08
C128	1-101-924-11	0.022	----------			0.02	0.06
C201	1-101-118-11	0.01	±20 %	50 V	----------	0.02	0.06
C202	1-101-923-11	0.01	----------			0.02	0.06
C203	1-102-100-11	0.0022	±5 %	50 V	----------	0.02	0.06
C204	1-101-923-11	0.01	----------			0.02	0.06
C205	1-101-118-11	0.01	±20 %	50 V	----------	0.02	0.06
C206	1-101-923-11	0.01	----------			0.02	0.06
C207	1-101-923-11	0.01	----------			0.02	0.06
C208	1-101-918-11	0.001	----------			0.02	0.06
C209	1-102-977-11	200 p	±5 %	50 V	----------	0.02	0.06
C210	1-101-924-11	0.022	----------			0.02	0.06
C211	1-102-100-11	0.0022	±5 %	50 V	----------	0.02	0.06
C212	1-121-651-11	10		16 V	elect -----	0.04	0.11
C213	1-101-118-11	0.01	±20 %	50 V	----------	0.02	0.06
C214	1-121-651-11	10		16 V	elect -----	0.04	0.06

Ref. No.	Part No.	Description				Unit Price	
C215	1-105-677-12	0.022	±10 %	50 V	mylar -----	$0.02	DMO.06
C216	1-105-689-12	0.22	±10 %	50 V	mylar -----	0.10	0.28
C217	1-123-068-11	220		16 V	elect -----	1.45	4.10
C218	1-102-977-11	200 p	±5 %	50 V	----------	0.02	0.06
C219	1-121-413-11	100		6.3 V	elect -----	0.05	0.14
C220	1-121-651-11	10		16 V	elect ------	0.04	0.11
C221	1-107-140-11	240 p	±10 %	50 V	silvered mica	0.02	0.06
C222	1-102-824-11	470 p	±5 %	50 V	----------	0.02	0.06
C223	1-131-196-11	2.2		16 V	tantalum ---	0.07	0.20
C224	1-102-960-11	24 p	±5 %	50 V	----------	0.02	0.06
C225	1-101-922-11	0.0047	----------			0.02	0.06
C226	1-101-923-11	0.01		----------		0.02	0.06
C227	1-105-683-12	0.068	±10 %	50 V	mylar -----	0.04	0.11
C228	1-121-391-11	1		50 V	elect -----	0.03	0.08
C229	1-121-395-11	4.7		25 V	elect -----	0.07	0.20
C230	1-121-651-11	10		16 V	elect -----	0.04	0.11
C231	1-127-022-11	0.47		10 V	solid aluminum	0.06	0.17
C232	1-102-960-11	24 p	±5 %	50 V	----------	0.02	0.06
C233	1-101-924-11	0.022	----------			0.02	0.06
C234	1-101-924-11	0.022	----------			0.02	0.06
C235	1-101-118-11	0.01	±20 %	50 V	----------	0.02	0.06
C236	1-121-413-11	100		6.3 V	elect -----	0.05	0.14
C237	1-101-923-11	0.01	----------			0.02	0.06
C301	1-121-402-11	33		10 V	elect -----	0.05	0.14
C302	1-121-352-11	47		10 V	elect -----	0.04	0.11
C303	1-121-413-11	100		6.3 V	elect -----	0.05	0.14
C304	1-127-022-11	0.47		10 V	solid aluminum	0.06	0.17
C305	1-103-575-11	4,700 p	±5 %	50 V	styrol -----	0.15	0.42
C306	1-105-661-12	0.001	±10 %	50 V	mylar -----	0.02	0.06
C307	1-123-068-11	220		16 V	elect -----	1.45	4.10
C321(C371)	1-106-013-12	0.0033	±5 %	50 V	mylar -----	0.04	0.11
C322(C372)	1-121-912-11	1		50 V	elect -----	0.03	0.08
C323(C373)	1-121-912-11	1		50 V	elect -----	0.03	0.08
C324(C374)	1-105-661-12	0.001	±10 %	50 V	mylar -----	0.02	0.06
C325(C375)	1-102-973-11	100 p	±5 %	50 V	----------	0.02	0.06
C326(C376)	1-121-352-11	47		10 V	elect -----	0.04	0.11
C327(C377)	1-121-392-11	3.3		25 V	elect -----	0.04	0.11
C401	1-105-673-12	0.01	±10 %	50 V	mylar -----	0.02	0.06
C402	-	-				-	-

Ref. No.	Part No.	Description					Unit Price	
C403	1-102-953-11	18 p	±25 %	25 V	----------		$0.02	DM0.06
C404	-	-					-	-
C405	1-121-409-11	47		16 V	elect	--------	0.04	0.11
C406	1-105-677-12	0.022	±10 %	50 V	mylar	--------	0.02	0.06
C407	1-103-815-11	390 p	±5 %	25 V	styrol	--------	0.02	0.06
C408	1-101-923-11	0.01	----------				0.02	0.06
C409	1-101-923-11	0.01	----------				0.02	0.06
C410	1-105-677-12	0.022	±10 %	50 V	mylar	--------	0.02	0.06
C411	1-105-669-12	0.0047	±10 %	50 V	mylar	--------	0.02	0.06
C412	1-101-923-11	0.01	----------				0.02	0.06
C413	1-105-677-12	0.022	±10 %	50 V	mylar	--------	0.02	0.06
C414	-	-					-	-
C415	1-102-977-11	200 p	±5 %	----------			0.02	0.06
C416	1-102-936-11	3 p	±0.25 p		----------		0.02	0.06
C417	1-121-651-11	10		16 V	elect	-------	0.04	0.11
C418	1-121-395-11	4.7		25 V	elect	-------	0.07	0.20
C419	1-121-398-11	10		25 V	elect	-------	0.03	0.08
C420	1-101-923-11	0.01	----------				0.02	0.06
C421	1-105-672-12	0.0082	±10 %	50 V	mylar	-------	0.02	0.06
C422	1-105-672-12	0.0082	±10 %	50 V	mylar	-------	0.02	0.06
C423	1-105-672-12	0.0082	±10 %	50 V	mylar	-------	0.02	0.06
C424	1-101-924-11	0.022	----------				0.02	0.06
C425	1-121-651-11	10		16 V	elect	-------	0.04	0.11
C426	1-101-924-11	0.022	----------				0.02	0.06
C427	1-105-682-12	0.056	±10 %	50 V	mylar	-------	0.02	0.06
C428	1-101-923-11	0.01	----------				0.02	0.06
C501(C551)	1-131-206-11	3.3		25 V	tantalum	-----	0.15	0.42
C502(C552)	1-121-926-11	33		10 V	elect	-------	0.05	0.14
C503(C553)	1-102-978-11	220 p	±5 %	50 V	----------		0.02	0.06
C504(C554)	-	-					-	-
C505(C555)	1-101-880-11	47 p	±5 %	50 V	----------		0.02	0.06
C506(C556)	1-106-005-12	0.0015	±5 %	50 V	mylar	-------	0.04	0.11
C507(C557)	1-106-019-12	0.0056	±5 %	50 V	mylar	-------	0.03	0.08
C508(C558)	1-121-911-11	0.47		50 V	elect	-------	0.04	0.11
C509(C559)	1-105-661-12	0.001	±10 %	50 V	mylar	-------	0.02	0.06
C510(C560)	1-131-206-11	3.3		25 V	tantalum	----	0.13	0.37
C511(C561)	1-105-661-12	0.001	±10 %	50 V	mylar	-------	0.02	0.06
C512(C562)	1-123-044-11	33		25 V	elect	-------	0.06	0.17
C513(C563)	1-121-913-11	3.3		25 V	elect	-------	0.15	0.42
C514(C564)	1-121-416-11	100		25 V	elect	-------	0.07	0.20

Ref. No.	Part No.	Description					Unit Price	
C515(C565)	1-105-685-12	0.1	±10 %	50 V	mylar	--------	$0.03	DM0.06
C516(C566)	1-121-398-11	10		25 V	elect	--------	0.03	0.08
C601(C651)	1-105-677-12	0.022	±10 %	50 V	mylar	--------	0.02	0.06
C602(C652)	1-102-982-11	180 p	±10 %	50 V	----------		0.02	0.06
C603(C653)	1-131-206-11	3.3		25 V	tantalum	-----	0.15	0.42
C604(C654)	1-121-392-11	3.3		25 V	elect	--------	0.04	0.11
C605(C655)	1-105-679-12	0.033	±10 %	50 V	mylar	--------	0.03	0.08
C606(C656)	1-105-679-12	0.033	±10 %	50 V	mylar	--------	0.03	0.08
C607(C657)	1-105-665-12	0.0022	±10 %	50 V	mylar	--------	0.02	0.06
C608(C658)	1-121-398-11	10		25 V	elect	--------	0.03	0.08
C609(C659)	1-121-352-11	47		10 V	elect	--------	0.04	0.11
C610(C660)	1-102-978-11	220 p	±5 %	50 V	----------		0.02	0.06
C611(C661)	1-102-978-11	220 p	±5 %	50 V	----------		0.02	0.06
C612(C662)	1-102-978-11	220 p	±5 %	50 V	----------		0.02	0.06
C613(C663)	1-121-392-11	3.3		25 V	elect	--------	0.04	0.11
C614(C664)	1-106-023-12	0.0082	±5 %	50 V	mylar	--------	0.04	0.11
C615(C665)	1-106-013-12	0.0033	±5 %	50 V	mylar	--------	0.04	0.11
C616(C666)	1-106-041-12	0.047	±5 %	50 V	mylar	--------	0.05	0.14
C617(C667)	1-106-031-12	0.018	±5 %	50 V	mylar	--------	0.03	0.08
C618(C668)	1-121-392-11	3.3		25 V	elect	--------	0.04	0.11
C619(C669)	1-121-392-11	3.3		25 V	elect	--------	0.04	0.11
C620	1-105-671-12	0.0068	±10 %	50 V	mylar	--------	0.02	0.06
C701(C751)	1-121-392-11	3.3		25 V	elect	--------	0.04	0.11
C702(C752)	1-102-963-11	33 p	±5 %	50 V	----------		0.02	0.06
C703(C753)	1-121-935-11	100		25 V	elect	--------	0.17	0.48
C704(C754)	1-102-944-11	7 p	±5 %	50 V	----------		0.02	0.06
C705(C755)	1-102-963-11	33 p	±5 %	50 V	----------		0.02	0.06
C706(C756)	1-121-392-11	3.3		25 V	elect	--------	0.04	0.11
C707(C757)	1-123-058-11	47		50 V	elect	--------	0.02	0.06
C708(C758)	1-105-679-12	0.033	±10 %	50 V	mylar	--------	0.03	0.08
C709(C759)	1-105-665-12	0.0022	±10 %	50 V	mylar	--------	0.02	0.06
C710(C760)	1-105-665-12	0.0022	±10 %	50 V	mylar	--------	0.02	0.06
C711	1-121-935-11	100		25 V	elect	--------	0.17	0.48
C801	1-105-917-12	0.022	±10 %	200 V	mylar	--------	0.04	0.11
C802	1-105-917-12	0.022	±10 %	200 V	mylar	--------	0.04	0.11
C803	1-105-917-12	0.022	±10 %	200 V	mylar	--------	0.04	0.11
C804	1-105-917-12	0.022	±10 %	200 V	mylar	--------	0.04	0.11
C805	1-123-065-11	330		25 V	elect	--------	0.12	0.34
C806	1-123-065-11	330		25 V	elect	--------	0.12	0.34
C807	1-121-413-11	100		6.3 V	elect	--------	0.05	0.14

Ref. No.	Part No.	Description					Unit Price	
C808	1-123-090-11	47		63 V	elect	--------	$1.17	DM3.31
C809	1-121-392-11	3.3		25 V	elect	--------	0.04	0.11
C810	1-121-726-11	0.47		50 V	elect	--------	0.03	0.08
C811	1-121-936-11	220		25 V	elect	--------	0.17	0.48
C812	1-121-936-11	220		25 V	elect	--------	0.17	0.48
C813	1-121-391-11	1		50 V	elect	--------	0.03	0.08
C814	1-121-935-11	100		25 V	elect	--------	0.17	0.48
C815	1-121-935-11	100		25 V	elect	--------	0.17	0.48
C816	1-123-090-11	47		63 V	elect	--------	1.17	3.31
C817	1-123-090-11	47		63 V	elect	--------	1.17	3.31
C818	1-105-725-12	0.1	±10 %	100 V	mylar	--------	0.07	0.20
C819	1-105-725-12	0.1	±10 %	100 V	mylar	--------	0.07	0.20
C820	1-121-410-11	47		25 V	elect	--------	0.10	0.28
C821	1-121-936-11	220		25 V	elect	--------	0.17	0.48
C822	1-105-677-12	0.022	±10 %	50 V	mylar	--------	0.02	0.06
C823	1-121-392-11	3.3		25 V	elect	--------	0.04	0.11
C901,902	1-123-089-11	6,800		63 V	elect	--------	5.75	16.25
CV101~106	1-151-232-12	Tuning		----------			3.05	8.62
CT401,402	1-141-095-11	Trimmer		----------			0.07	0.20

Resistors

All resistors are in Ω, ±5 %, 1/4 W and carbon type unless otherwise indicated.

R104	1-244-665-11	470	----------	0.02	0.06
R105	1-242-689-11	4.7 k	----------	0.02	0.06
R106	1-242-696-11	9.1 k	----------	0.02	0.06
R107	1-242-666-11	510	----------	0.02	0.06
R108	1-242-673-11	1 k	----------	0.02	0.06
R109	1-242-642-11	51	----------	0.02	0.06
R110	1-242-697-11	10 k	----------	0.02	0.06
R111	1-244-692-11	6.2 k	----------	0.02	0.06
R112	1-242-666-11	510	----------	0.02	0.06
R113	1-242-677-11	1.5 k	----------	0.02	0.06
R114	1-242-685-11	3.3 k	----------	0.02	0.06
R115	1-242-677-11	1.5 k	----------	0.02	0.06
R116	1-242-721-11	100 k	----------	0.02	0.06
R117	1-244-697-11	10 k	----------	0.02	0.06
R118	1-244-675-11	1.2 k	----------	0.02	0.06
R119	1-244-708-11	30 k	----------	0.02	0.06

Ref. No.	Part No.	Description	Unit Price	
R201	1-244-655-11	180	$0.02	DM0.06
R202	1-242-661-11	330	0.02	0.06
R203	1-242-671-11	820	0.02	0.06
R204	1-242-693-11	6.8 k	0.02	0.06
R205	1-242-663-11	390	0.02	0.06
R206	1-242-680-11	2 k	0.02	0.06
R207	1-244-649-11	100	0.02	0.06
R208	1-242-673-11	1 k	0.02	0.06
R209	1-242-687-11	3.9 k	0.02	0.06
R210	1-242-673-11	1 k	0.02	0.06
R211	1-242-649-11	100	0.02	0.06
R212	1-244-649-11	100	0.02	0.06
R213	1-242-691-11	5.6 k	0.02	0.06
R214	1-242-661-11	330	0.02	0.06
R215	1-242-684-11	3 k	0.02	0.06
R216	1-242-669-11	680	0.02	0.06
R217	1-242-663-11	390	0.02	0.06
R218	1-242-661-11	330	0.02	0.06
R219	1-242-669-11	680	0.02	0.06
R220	1-242-663-11	390	0.02	0.06
R221	1-244-649-11	100	0.02	0.06
R222	1-242-675-11	1.2 k	0.02	0.06
R223	1-242-697-11	10 k	0.02	0.06
R224	1-242-641-11	47	0.02	0.06
R225	1-242-641-11	47	0.02	0.06
R226	1-242-721-11	100 k	0.02	0.06
R227	1-242-745-11	1 M	0.02	0.06
R228	1-242-745-11	1 M	0.02	0.06
R229	1-242-721-11	100 k	0.02	0.06
R230	1-244-649-11	100	0.02	0.06
R231	1-242-673-11	1 k	0.02	0.06
R232	1-242-706-11	24 k	0.02	0.06
R233	1-242-655-11	180	0.02	0.06
R234	1-242-713-11	47 k	0.02	0.06
R235	1-244-673-11	1 k	0.02	0.06
R236	1-242-657-11	220	0.02	0.06
R237	1-242-705-11	22 k	0.02	0.06
R238	1-242-703-11	18 k	0.02	0.06
R239	1-242-649-11	100	0.02	0.06
R240	1-242-689-11	4.7 k	0.02	0.06

Ref. No.	Part No.	Description	Unit Price	
R241	1-242-632-11	20	$0.02	DM0.06
R242	1-242-701-11	15 k	0.02	0.06
R243	1-242-699-11	12 k	0.02	0.06
R244	1-242-632-11	20	0.02	0.06
R245	1-242-701-11	15 k	0.02	0.06
R246	1-242-699-11	12 k	0.02	0.06
R247	1-242-685-11	3.3 k	0.02	0.06
R248	1-244-731-11	270 k	0.02	0.06
R249	1-242-714-11	51 k	0.02	0.06
R250	1-242-745-11	1 M	0.02	0.06
R251	1-242-735-11	390 k	0.02	0.06
R252	1-242-723-11	120 k	0.02	0.06
R253	1-242-711-11	39 k	0.02	0.06
R254	1-242-721-11	100 k	0.02	0.06
R255	1-242-745-11	1 M	0.02	0.06
R256	1-242-673-11	1 k	0.02	0.06
R257	1-242-677-11	1.5 k	0.02	0.06
R301	1-242-669-11	680	0.02	0.06
R302	1-242-701-11	15 k	0.02	0.06
R303	1-242-684-11	3 k	0.02	0.06
R304	1-242-684-11	3 k	0.02	0.06
R305	1-242-681-11	2.2 k	0.02	0.06
R306	1-202-559-11	270 1/2 W composition	0.02	0.06
R321(R371)	1-242-709-11	33 k	0.02	0.06
R322(R372)	1-242-693-11	6.8 k	0.02	0.06
R323(R373)	1-242-693-11	6.8 k	0.02	0.06
R324(R374)	1-242-713-11	47 k	0.02	0.06
R325(R375)	1-242-724-11	130 k	0.02	0.06
R326(R376)	1-242-665-11	470	0.02	0.06
R327(R377)	1-242-693-11	6.8 k	0.02	0.06
R328(R378)	1-242-681-11	2.2 k	0.02	0.06
R329(R379)	1-242-663-11	390	0.02	0.06
R330(R380)	1-242-709-11	33 k	0.02	0.06
R331(R381)	1-242-681-11	2.2 k	0.02	0.06
R401	1-242-697-11	10 k	0.02	0.06
R402	1-242-690-11	5.1 k	0.02	0.06
R403	1-244-673-11	1 k	0.02	0.06
R404	1-242-649-11	100	0.02	0.06
R405	1-242-716-11	62 k	0.02	0.06

Ref. No.	Part No.	Description	Unit Price	
R406	1-242-682-11	2.4 k	$0.02	DM0.06
R407	1-242-671-11	820	0.02	0.06
R408	1-242-697-11	10 k	0.02	0.06
R409	1-242-673-11	1 k	0.02	0.06
R410	1-242-656-11	200	0.02	0.06
R411	1-242-709-11	33 k	0.02	0.06
R412	1-242-687-11	3.9 k	0.02	0.06
R413	1-242-693-11	6.8 k	0.02	0.06
R414	1-242-672-11	910	0.02	0.06
R415	1-242-641-11	47	0.02	0.06
R416	1-242-672-11	910	0.02	0.06
R417	1-242-689-11	4.7 k	0.02	0.06
R418	1-242-673-11	1 k	0.02	0.06
R419	1-242-713-11	47 k	0.02	0.06
R420	1-244-643-11	56	0.02	0.06
R501(R551)	1-242-715-11	56 k	0.02	0.06
R502(R552)	1-242-737-11	470 k	0.02	0.06
R503(R553)	1-242-670-11	750	0.02	0.06
R504(R554)	1-242-673-11	1 k	0.02	0.06
R505(R555)	1-242-683-11	2.7 k	0.02	0.06
R506(R556)	1-2-2-713-11	47 k	0.02	0.06
R507(R557)	1-242-741-11	680 k	0.02	0.06
R508(R558)	1-242-721-11	100 k	0.02	0.06
R509(R559)	1-242-685-11	3.3 k	0.02	0.06
R510(R560)	1-242-721-11	100 k	0.02	0.06
R511(R561)	1-242-721-11	100 k	0.02	0.06
R512(R562)	1-242-673-11	1 k	0.02	0.06
R513(R563)	1-242-721-11	100 k	0.02	0.06
R514(R564)	1-242-718-11	75 k	0.02	0.06
R515(R565)	1-242-705-11	22 k	0.02	0.06
R516(R566)	1-242-713-11	47 k	0.02	0.06
R517(R567)	1-242-671-11	820	0.02	0.06
R518(R568)	1-242-697-11	10 k	0.02	0.06
R519(R569)	1-242-657-11	220	0.02	0.06
R520(R570)	1-242-709-11	33 k	0.02	0.06
R521(R571)	1-242-685-11	3.3 k	0.02	0.06
R522(R572)	1-242-673-11	1 k	0.02	0.06
R523(R573)	1-242-698-11	12 k	0.02	0.06
R524(R574)	1-242-709-11	33 k	0.02	0.06
R525(R575)	1-242-697-11	10 k	0.02	0.06
R526(R576)	1-244-699-11	24 k	0.02	0.06

Ref. No.	Part No.	Description	Unit Price	
R601(R651)	1-244-703-11	18 k	$0.02	DM0.06
R602(R652)	1-244-717-11	68 k	0.02	0.06
R603(R653)	1-242-731-11	270 k	0.02	0.06
R604(R654)	1-242-663-11	390	0.02	0.06
R605(R655)	1-242-711-11	39 k	0.02	0.06
R606(R656)	1-242-677-11	1.5 k	0.02	0.06
R607(R657)	1-242-697-11	10 k	0.02	0.06
R608(R658)	1-242-697-11	10 k	0.02	0.06
R609(R659)	1-242-689-11	4.7 k	0.02	0.06
R610(R660)	1-242-697-11	10 k	0.02	0.06
R611(R661)	1-242-673-11	1 k	0.02	0.06
R612(R662)	1-242-721-11	100 k	0.02	0.06
R613(R663)	1-242-673-11	1 k	0.02	0.06
R614(R664)	1-242-721-11	100 k	0.02	0.06
R615(R665)	1-242-673-11	1 k	0.02	0.06
R616(R666)	1-242-693-11	6.8 k	0.02	0.06
R617(R667)	1-242-709-11	33 k	0.02	0.06
R618(R668)	1-242-649-11	100	0.02	0.06
R619(R669)	1-242-679-11	1.8 k	0.02	0.06
R620(R670)	1-242-687-11	3.9 k	0.02	0.06
R621(R671)	1-242-673-11	1 k	0.02	0.06
R622(R672)	1-242-715-11	56 k	0.02	0.06
R623(R673)	1-244-739-11	560 k	0.02	0.06
R624(R674)	1-242-731-11	270 k	0.02	0.06
R625(R675)	1-242-673-11	1 k	0.02	0.06
R626(R676)	1-242-701-11	15 k	0.02	0.06
R627(R677)	1-242-709-11	33 k	0.02	0.06
R628(R678)	1-242-689-11	4.7 k	0.02	0.06
R629	1-242-721-11	100 k	0.02	0.06
R701(R751)	1-244-745-11	1 M	0.02	0.06
R702(R752)	1-244-673-11	1 k	0.02	0.06
R703(R753)	1-244-714-11	51 k	0.02	0.06
R704(R754)	1-244-705-11	22 k	0.02	0.06
R705(R755)	1-244-677-11	1.5 k	0.02	0.06
R706(R756)	1-244-671-11	820	0.02	0.06
R707(R757)	1-244-666-11	510	0.02	0.06
R708(R758)	1-244-685-11	3.3 k	0.02	0.06
R709(R759)	1-244-697-11	10 k	0.02	0.06
R710(R760)	1-244-714-11	51 k	0.02	0.06

Ref. No.	Part No.	Description				Unit Price	
R711(R761)	1-202-583-11	2.7 k	1/2 W	composition	----	$0.02	DM0.06
R712(R762)	1-202-583-11	2.7 k	1/2 W	composition	----	0.02	0.06
R713(R763)	1-244-701-11	15 k	----------			0.02	0.06
R714(R764)	1-244-661-11	330	----------			0.02	0.06
R715(R765)	1-244-661-11	330	----------			0.02	0.06
R716(R766)	1-244-649-11	100	----------			0.02	0.06
R717(R767)	1-202-517-11	4.7	1/2 W	composition	----	0.02	0.06
R718(R768)	1-217-158-11	0.47	5 W	metal	----------	0.05	0.14
R719(R769)	1-217-158-11	0.47	5 W	metal	----------	0.05	0.14
R720(R770)	1-202-525-11	10	1/2 W	composition	----	0.02	0.06
R721(R771)	1-202-517-11	4.7	1/2 W	composition	----	0.02	0.06
R722(R772)	1-202-565-11	470	1/2 W	composition	----	0.02	0.06
R723(R773)	1-202-565-11	470	1/2 W	composition	----	0.02	0.06
R724(R774)	1-244-697-11	10 k	----------			0.02	0.06
R725	1-244-697-11	10 k	----------			0.02	0.06
R726	1-244-697-11	10 k	----------			0.02	0.06
R801	1-207-635-11	82	2 W	wirewound	------	0.06	0.17
R802	1-207-688-11	220	5 W	wirewound	------	0.07	0.20
R803	1-244-685-11	3.3 k	----------			0.02	0.06
R804	1-207-639-11	330	2 W	wirewound	------	0.06	0.17
R805	1-244-649-11	100	----------			0.02	0.06
R806	1-244-665-11	470	----------			0.02	0.06
R807	1-242-706-11	24 k	----------			0.02	0.06
R808	1-242-721-11	100 k	----------			0.02	0.06
R809	1-242-697-11	10 k	----------			0.02	0.06
R810	1-242-720-11	91 k	----------			0.02	0.06
R811	1-242-707-11	27 k	----------			0.02	0.06
R812	1-242-726-11	160 k	----------			0.02	0.06
R813	1-242-705-11	22 k	----------			0.02	0.06
R814	1-242-697-11	10 k	----------			0.02	0.06
R815	1-242-701-11	15 k	----------			0.02	0.06
R816	1-242-703-11	18 k	----------			0.02	0.06
R817	1-202-565-11	470	1/2 W	composition	----	0.02	0.06
R818	1-242-671-11	820	----------			0.02	0.06
R819	1-242-671-11	820	----------			0.02	0.06
R820	1-242-705-11	22 k	----------			0.02	0.06
R821	1-202-587-11	3.9 k	1/2 W	composition	----	0.02	0.06
R822	1-202-577-11	1.5 k	1/2 W	composition	-----	0.02	0.06
R823	1-202-577-11	1.5 k	1/2 W	composition	----	0.02	0.06
R824	1-202-582-11	2.4 k	1/2 W	composition	----	0.02	0.06
R825	1-202-582-11	2.4 k	1/2 W	composition	----	0.02	0.06

Ref. No.	Part No.	Description	Unit Price	
R826	1-244-657-11	220 ----------	$0.02	DM0.06
R827	1-244-641-11	47 ----------	0.02	0.06
R828	1-202-505-11	110 1/2 W composition ----	0.02	0.06
R829	1-207-630-11	22 2 W wirewound ------	0.06	0.17
R830	1-207-630-11	22 2 W wirewound ------	0.06	0.17
R831	1-207-929-11	2.7 5 W wirewound ------	0.06	0.17
R832	1-202-510-11	2.4 k 1/2 W composition ----	0.02	0.06
R833	1-202-510-11	2.4 k 1/2 W composition ----	0.02	0.06
R837	1-242-705-11	22 k ----------	0.02	0.06
R901(R951)	1-244-697-11	10 k ----------	0.02	0.06
R902(R952)	1-244-697-11	10 k ----------	0.02	0.06
R903(R953)	1-244-719-11	82 k ----------	0.02	0.06
R904(R954)	1-244-735-11	390 k ----------	0.02	0.06
RT201	1-222-845-11	100 k (B), adjustable ----------	0.12	0.34
RT202	1-221-978-11	4.7 k (B), adjustable ----------	0.13	0.37
RT301	1-221-978-11	4.7 k (B), adjustable ----------	0.13	0.37
RT401	1-221-997-11	2.2 k (B), adjustable ----------	0.13	0.37
RT701(RT751)	1-221-967-11	10 k (B), adjustable ----------	0.11	0.31
RV501(RV551)	1-224-103-11	50 k (C), variable (MIC MIXING) ----	1.04	2.93
RV601(RV651)	1-224-102-11	250 k (B)/250 k (M), variable (VOLUME)	1.82	5.14
RV602(RV652)	1-224-102-11	250 k (B)/250 k (M), variable (BALANCE)	1.82	5.14
RV603(RV653)	1-224-101-11	50 k (B), variable (TREBLE) --------	0.71	2.00
RV604(RV654)	1-224-101-11	50 k (B), variable (BASS) ----------	0.71	2.00

Switches

S1	1-516-199-00	Rotary/slide (FUNCTION) ----------	1.73	4.89
S2	1-516-036-00	Lever (MONITOR 1) ----------	0.05	0.14
S3	1-516-036-00	Lever (MONITOR 2) ----------	0.05	0.14
S4	1-516-196-00	Rotary/slide (MODE) ----------	1.47	4.16
S5	1-516-036-00	Lever/slide (LOUDNESS) ----------	0.05	0.14
S6	1-516-197-00	Rotary/slide (FILTER) ----------	1.24	3.50
S7	1-514-524-00	Slide (NORMAL/SEPARATE) ----------	0.13	0.37
S8	1-514-198-00	Rotary/slide (SPEAKER) ----------	1.60	4.92
S9	1-516-036-00	Lever (MUTING) ----------	0.05	0.14
S10	1-514-448-00	Slide (DE-EMPHASIS) ----------	0.13	0.37
S12-1 ∿ 3		MIC MIXING (built in RV501, 551) ---		
S11	1-516-315-00	Seesaw (POWER) ----------	0.73	2.06

Ref. No.	Part No.	Description	Unit Price	
		Filters		
CF201,202	1-527-507-12	Fm I-f, ceramic 10.70 MHz (red) ------	$0.26	DM0.73
	1-527-507-22	Fm I-f, ceramic 10.66 MHz (black) ---	0.26	0.73
	1-527-507-32	Ff I-f, ceramic 10.74 MHz (white) ---	0.26	0.73
	1-527-507-42	Fm I-f, ceramic 10.62 MHz (green) ---	0.26	0.73
	1-527-507-52	Fm I-f, ceramic 10.78 MHz (yellow) ---	0.26	0.73
		Miscellaneous		
CB701(CB751)	1-515-194-00	Breaker, circuit ----------	0.94	2.65
CP201	1-231-193-00	Encapsulated Component ----------	0.15	0.42
CP301,302	1-231-224-00	Encapsulated Component ----------	0.16	0.45
CP901	1-231-057-12	Encapsulated Component, 0.033μF+120Ω -	0.13	0.37
CNJ901	1-509-517-00	Connector, REC/PB ----------	0.16	0.45
CNJ902	1-507-265-00	Jack, HEADPHONE ----------	0.16	0.45
CNJ906,907	1-507-394-00	Jack, MIC ----------	0.18	0.51
F901,902	1-532-252-00	Fuse, 2.5 A ----------	0.11	0.31
J901 ∿ 908 (J951 ∿ 958)	1-507-393-00	Jack, phono; 8-P ----------	0.49	1.38
M901	1-520-140-00	Meter, TUNING ----------	1.27	3.59
M902	1-520-141-00	Meter, TUNER INPUT ----------	0.24	3.50
PL901,902	1-518-116-00	Lamp, dial 11 V/0.36 A ----------	0.13	0.37
PL903	1-518-124-00	Lamp, TUNING 8 V/0.25 A ----------	0.13	0.37
PL904	1-518-151-00	Pointer (with lamp) ----------	0.63	1.77
PL905	1-518-158-00	Lamp, STEREO 8 V/0.03 A ----------	0.19	0.54
PL906	1-518-124-00	Lamp, TUNER INPUT meter 8 V/0.25 A --	0.23	0.65
PL907 ∿ 912	1-518-121-00	Lamp, AUX; PHONO; FM; A-M; TAPE; MIC (4.5 V/0.04 A) -	0.19	0.54
VS901	1-526-520-11	Selector, voltage ----------	0.11	0.31
	1-509-437-00	Socket, power transistor ----------	0.05	0.14
	1-509-546-00	Connector, ac input; 3-P ----------	0.47	1.32
	1-517-057-00	Holder, meter lamp; 2-P ----------	0.20	0.56
	1-533-090-00	Holder, dial lamp ----------	0.04	0.11
	1-535-054-00	Lug Terminal ----------	0.02	0.06
	1-535-055-00	Lug Terminal ----------	0.03	0.08
	1-536-353-00	Terminal Post, U-shaped (single) ----	0.02	0.06
	1-536-354-00	Terminal Post (C) ----------	0.02	0.06
	1-536-355-00	Terminal Post, U-shaped (double) ----	0.02	0.06
	1-536-395-00	Terminal Strip, 1L1C ----------	0.02	0.06
	1-536-398-00	Terminal Strip, 2L2C ----------	0.02	0.06
TFM901 ∿ 904	1-536-415-00	Terminal Strip, 4-P (ANTENNA) ------	0.02	0.06
	1-582-233-00	Jumper Board, 8-P phono jack -------	0.02	0.06

Part No.	Description	Unit Price	
	III. ACCESSORIES & PACKING MATERIALS		
X-44900-02-0	Cloth Ass'y, polishing	$0.03	DM0.08
1-501-083-21	Ribbon Antenna, f-m	0.43	1.21
1-506-138-11	Plug, phono (red)	0.03	0.08
1-506-138-12	Plug, phono (white)	0.03	0.08
3-701-020-00	Bag, polyethylene; instruction manual	0.01	0.03
3-701-359-00	Label, tack	0.01	0.03
3-780-161-11	Manual, instruction	0.44	1.24
3-793-183-00	Card, inspection	0.01	0.03
3-793-562-00	Schematic Diagram	0.06	0
4-822-360-00	Cushion, upper	0.11	0.31
4-822-363-00	Cushion, side	0.17	0.48
4-822-370-00	Carton	1.43	4.03
4-826-435-00	Bag, polyethylene; receiver	0.25	0.70

(1)

Hardware Nomenclature

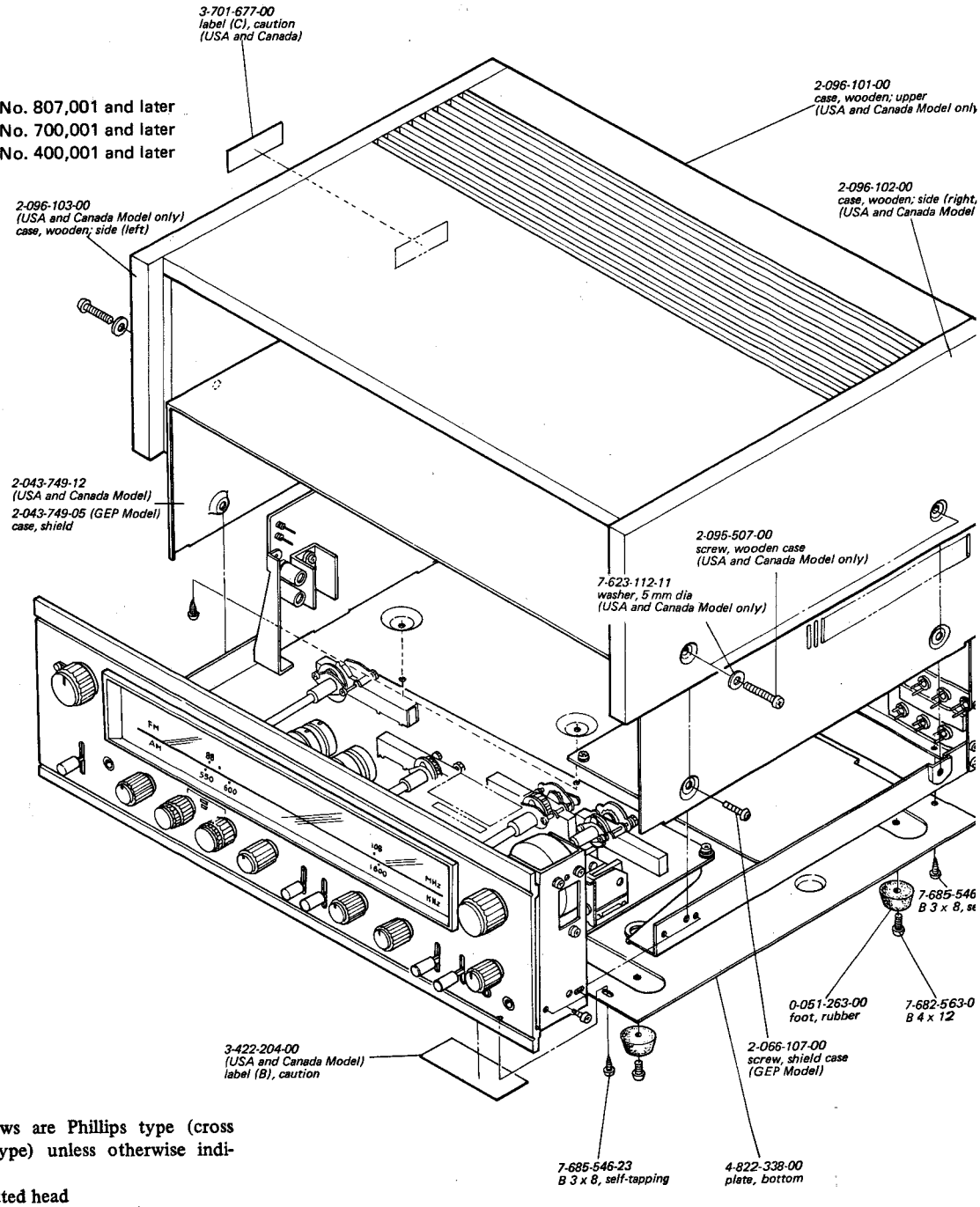
P	– Pan Head Screw	W	– Washer
PS	– Pan Head Screw with Spring Washer	SW	– Spring Washer
K	– Flat Countersunk Head Screw	LW	– Lock Washer
B	– Binding Head Screw	N	– Nut
SC	– Set Screw		
E	– Retaining Ring (E Washer)		

– Example –

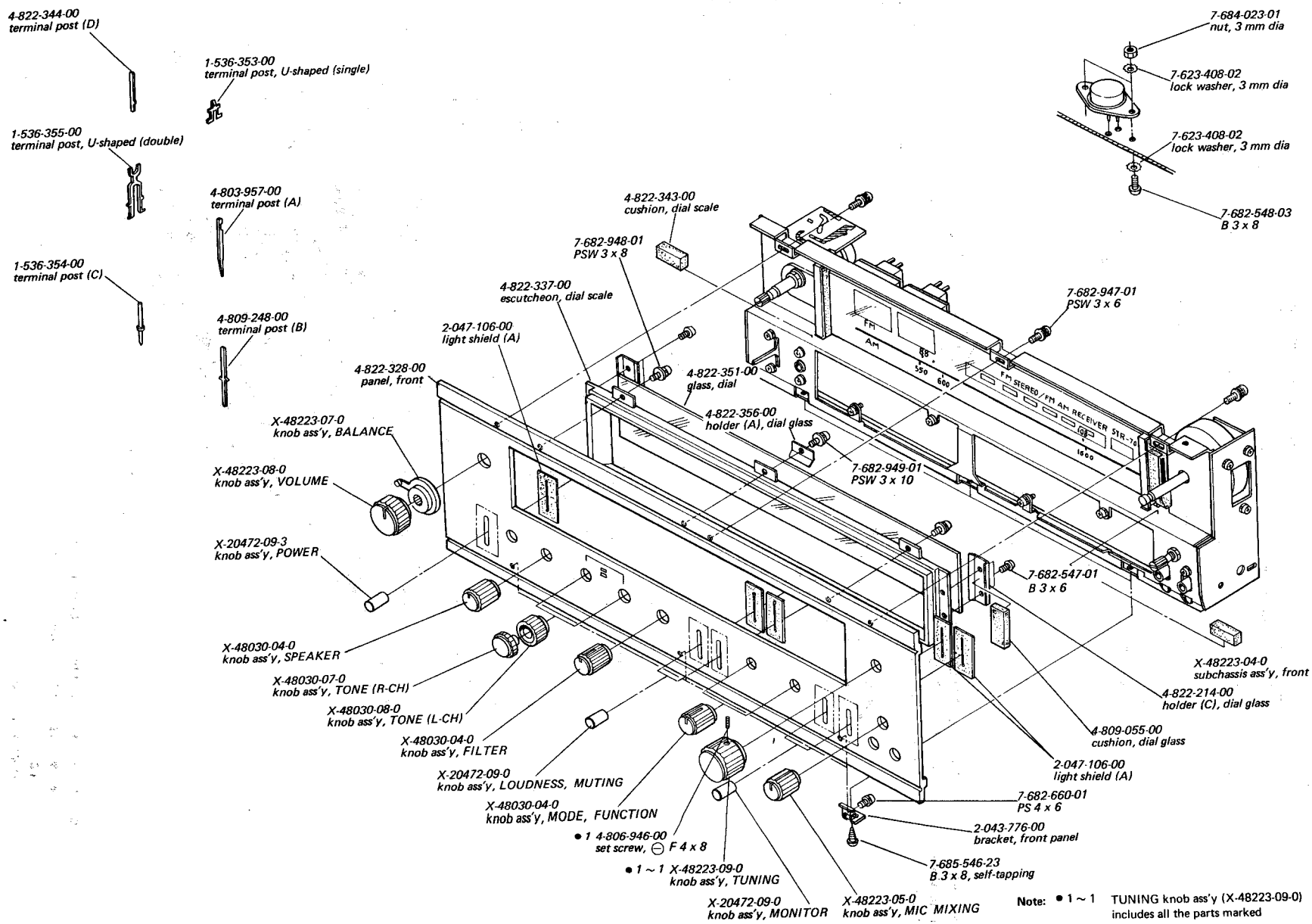
⊕ P 3×10
- Type of Slot
- Length in mm (L)
- Diameter in mm (D)
- Type of Head

Note:

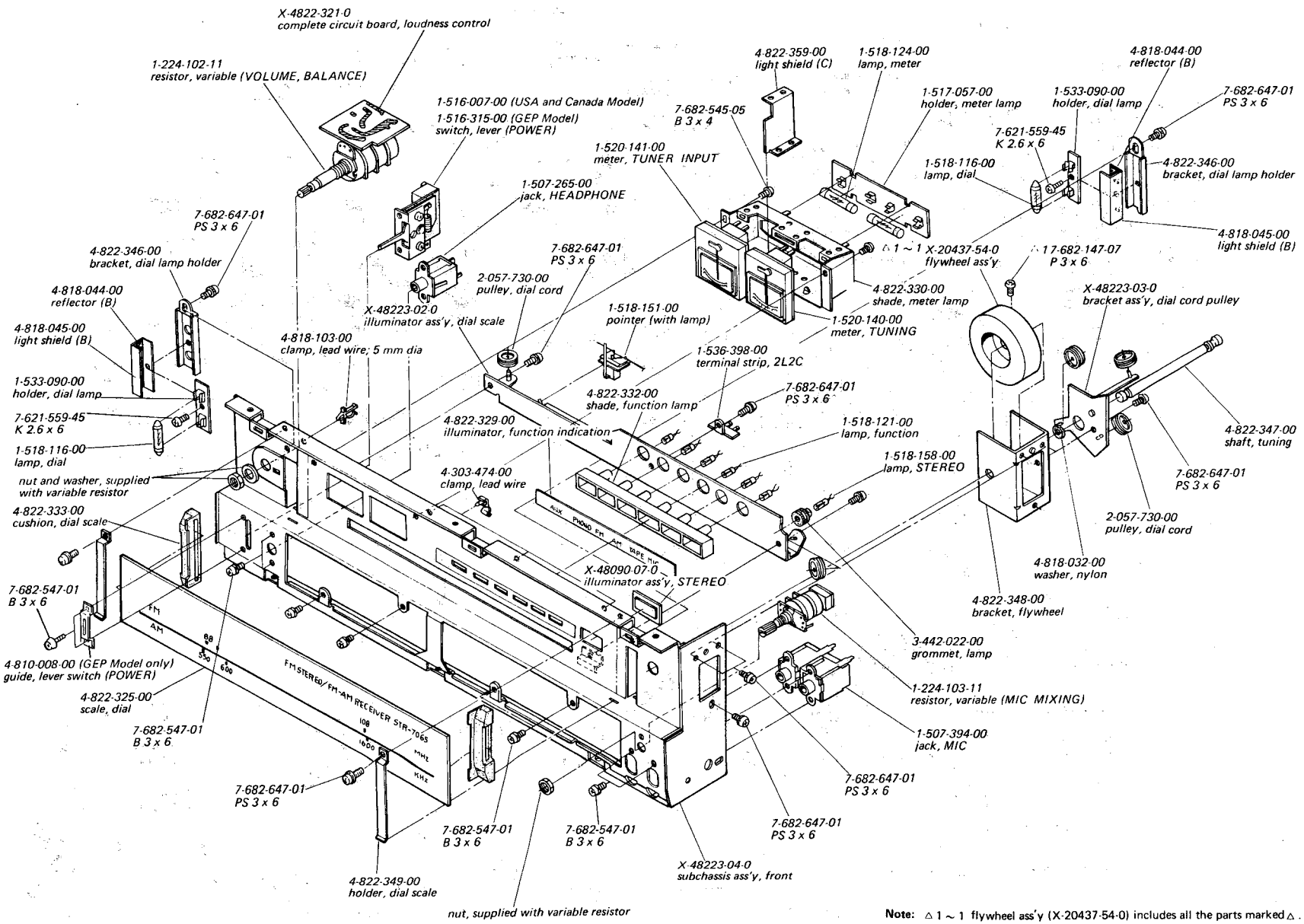
USA Model . . . . . Serial No. 807,001 and later
Canada Model . . . . . Serial No. 700,001 and later
GEP Model . . . . . Serial No. 400,001 and later



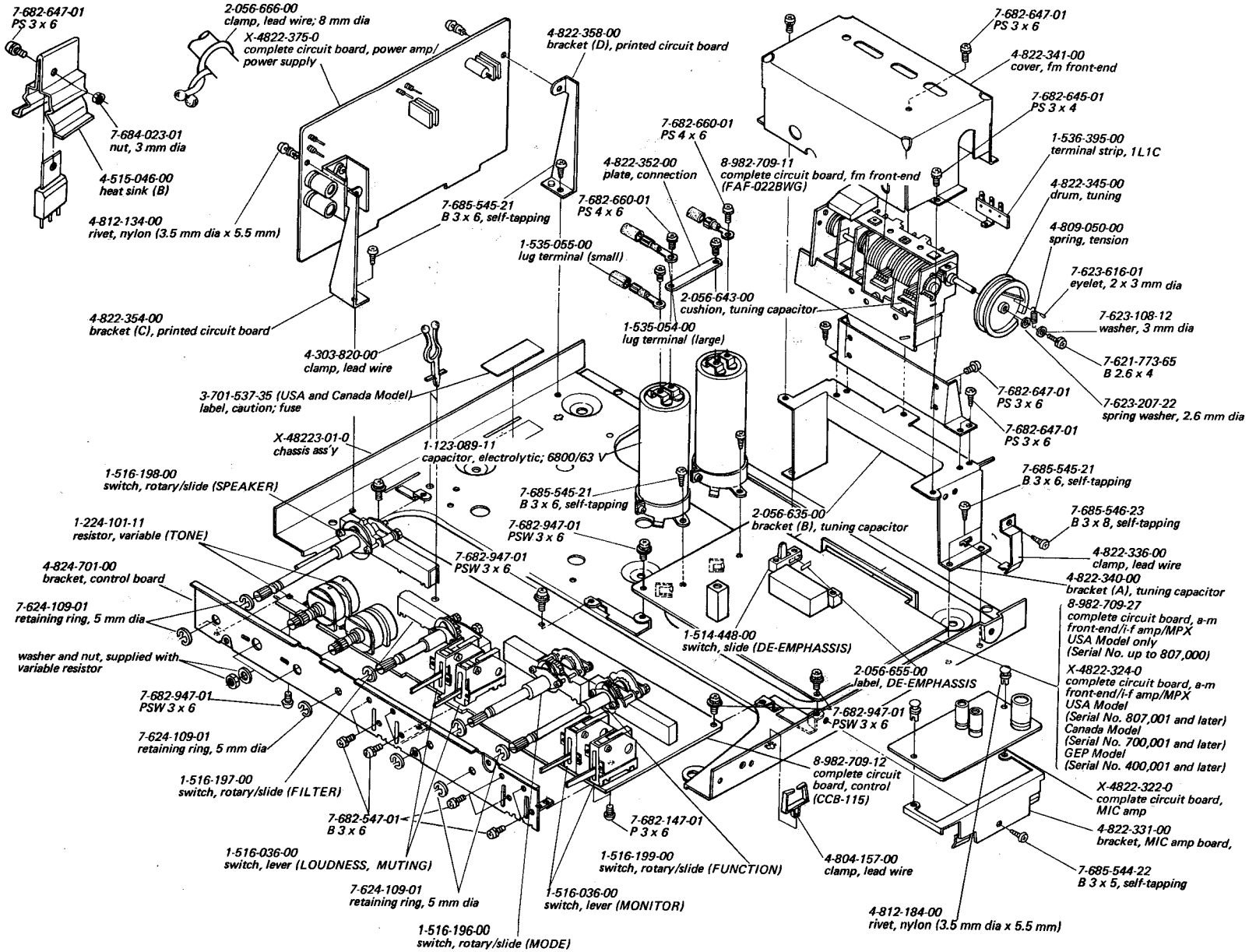
Note: All screws are Phillips type (cross recess type) unless otherwise indicated.
(–): slotted head



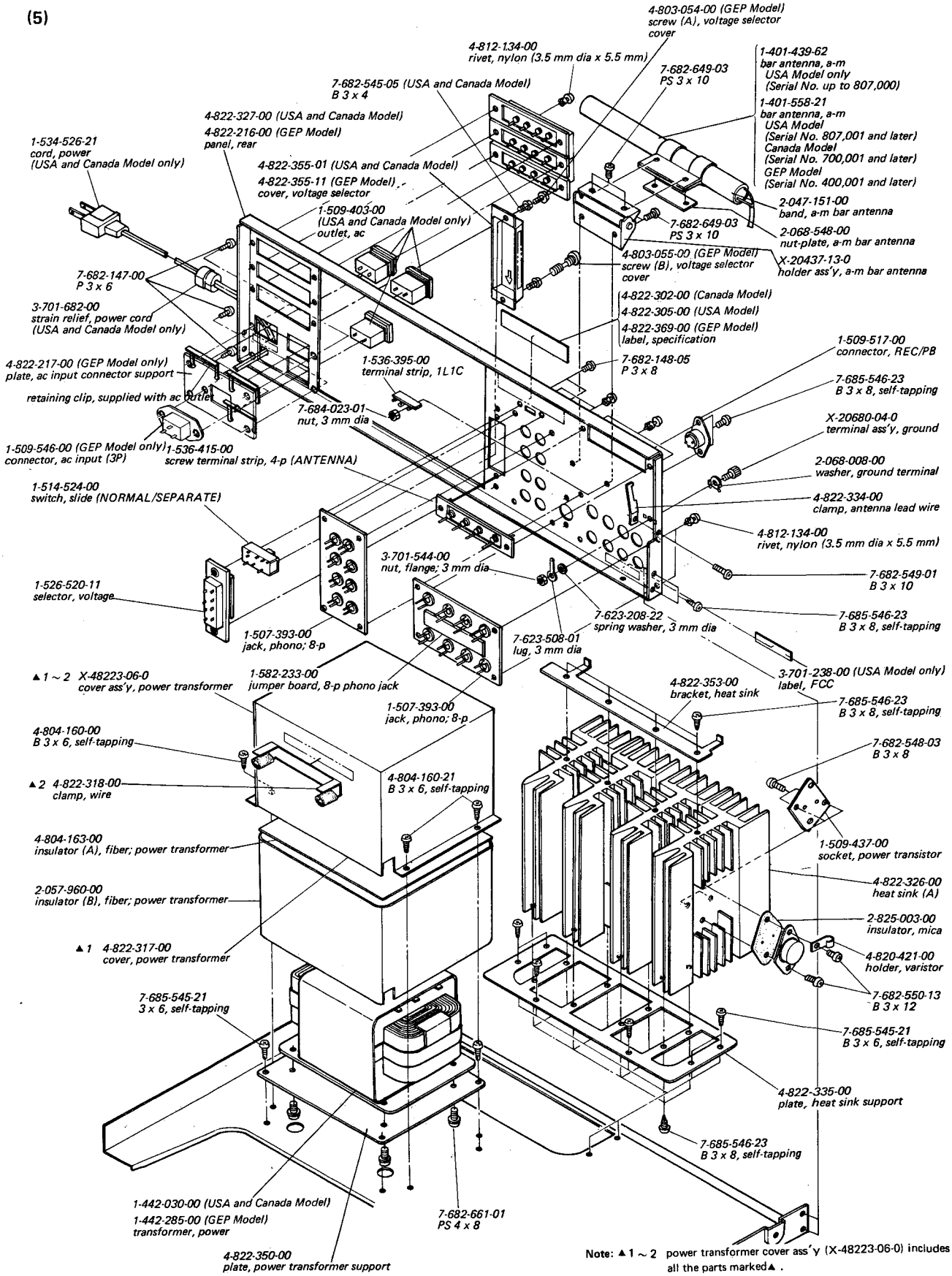
Note: • 1 ~ 1 TUNING knob ass'y (X-48223-09-0) includes all the parts marked



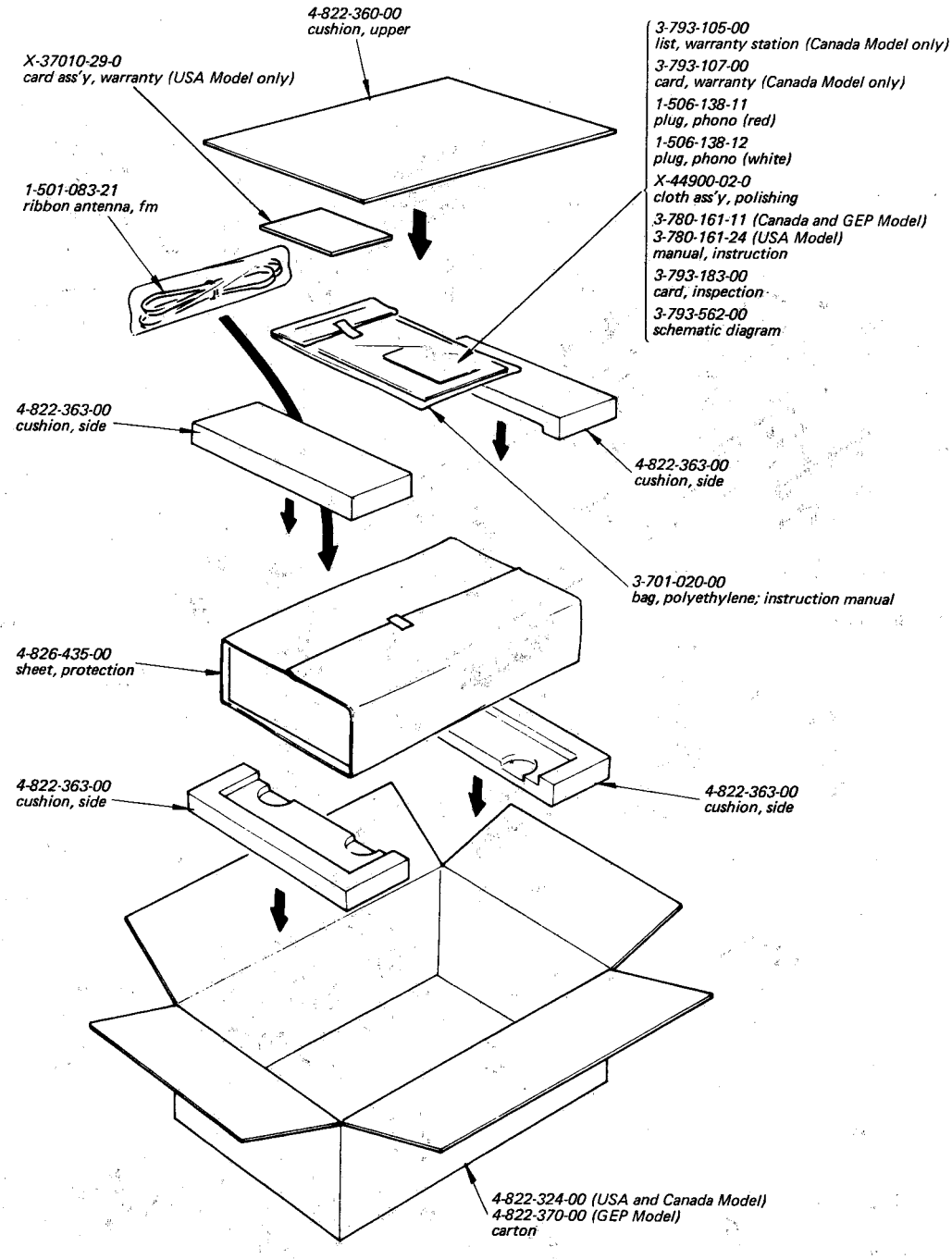
Note: △ 1 ~ 1 flywheel ass'y (X-20437-54-0) includes all the parts marked △.


7-682-647-01
PS 3 x 6
2-056-666-00
clamp, lead wire; 8 mm dia
X-4822-375-0
complete circuit board, power amp/
power supply
4-822-358-00
bracket (D), printed circuit board
7-682-647-01
PS 3 x 6
4-822-341-00
cover, fm front-end
7-682-645-01
PS 3 x 4
7-682-660-01
PS 4 x 6
1-536-395-00
terminal strip, 1L1C
7-684-023-01
nut, 3 mm dia
4-822-352-00
plate, connection
8-982-709-11
complete circuit board, fm front-end
(FAF-022BWG)
4-822-345-00
drum, tuning
4-515-046-00
heat sink (B)
7-685-545-21
B 3 x 6, self-tapping
7-682-660-01
PS 4 x 6
4-809-050-00
spring, tension
4-812-134-00
rivet, nylon (3.5 mm dia x 5.5 mm)
1-535-055-00
lug terminal (small)
7-623-616-01
eyelet, 2 x 3 mm dia
2-056-643-00
cushion, tuning capacitor
7-623-108-12
washer, 3 mm dia
4-822-354-00
bracket (C), printed circuit board
1-535-054-00
lug terminal (large)
7-621-773-65
B 2.6 x 4
4-303-820-00
clamp, lead wire
7-623-207-22
spring washer, 2.6 mm dia
3-701-537-35 (USA and Canada Model)
label, caution; fuse
7-682-647-01
PS 3 x 6
7-682-647-01
PS 3 x 6
X-48223-01-0
chassis ass'y
1-123-089-11
capacitor, electrolytic; 6800/63 V
7-685-545-21
B 3 x 6, self-tapping
1-516-198-00
switch, rotary/slide (SPEAKER)
7-685-545-21
B 3 x 6, self-tapping
7-685-546-23
B 3 x 8, self-tapping
1-224-101-11
resistor, variable (TONE)
7-682-947-01
PSW 3 x 6
2-056-635-00
bracket (B), tuning capacitor
4-822-336-00
clamp, lead wire
4-824-701-00
bracket, control board
7-682-947-01
PSW 3 x 6
4-822-340-00
bracket (A), tuning capacitor
8-982-709-27
complete circuit board, a-m
front-end/i-f amp/MPX
USA Model only
(Serial No. up to 807,000)
7-624-109-01
retaining ring, 5 mm dia
1-514-448-00
switch, slide (DE-EMPHASSIS)
X-4822-324-0
complete circuit board, a-m
front-end/i-f amp/MPX
USA Model
(Serial No. 807,001 and later)
Canada Model
(Serial No. 700,001 and later)
GEP Model
(Serial No. 400,001 and later)
washer and nut, supplied with
variable resistor
2-056-655-00
label, DE-EMPHASSIS
7-682-947-01
PSW 3 x 6
7-682-947-01
PSW 3 x 6
7-624-109-01
retaining ring, 5 mm dia
8-982-709-12
complete circuit
board, control
(CCB-115)
X-4822-322-0
complate circuit board,
MIC amp
1-516-197-00
switch, rotary/slide (FILTER)
4-822-331-00
bracket, MIC amp board,
7-682-547-01
B 3 x 6
7-682-147-01
P 3 x 6
4-804-157-00
clamp, lead wire
7-685-544-22
B 3 x 5, self-tapping
1-516-036-00
switch, lever (LOUDNESS, MUTING)
1-516-199-00
switch, rotary/slide (FUNCTION)
7-624-109-01
retaining ring, 5 mm dia
1-516-036-00
switch, lever (MONITOR)
4-812-184-00
rivet, nylon (3.5 mm dia x 5.5 mm)
1-516-196-00
switch, rotary/slide (MODE)

(5)



Note: ▲1 ~ 2 power transformer cover ass'y (X-48223-06-0) includes all the parts marked▲.



Note:

USA Model . . . . . Serial No. 807,001 and later
Canada Model . . . . . Serial No. 700,001 and later
GEP Model . . . . . Serial No. 400,001 and later

Repacking